1 of 11

NRTSC

**NUCLEAR REACTOR TECHNOLOGY
AND SCIENTIFIC COMPUTATIONS**

WSRC-TR-92-534

Task No.: 92-104-1

KEYWORDS:

**ONSET OF FLOW INSTABILITY
ONSET OF SIGNIFICANT VOID
DEMAND CURVES
LOSS OF COOLANT ACCIDENT
ANNULUS**

**RETENTION:
PERMANENT**

**NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS,
BOOK 7 (U)**

ISSUED: NOVEMBER, 1992

D. Allen Coutts

**Authorized Derivative Classifier/
Reviewing Official**

***SRL* SAVANNAH RIVER TECHNOLOGY CENTER, AIKEN, SC 29808
Westinghouse Savannah River Corporation
Prepared for the U.S. Department of Energy under
Contract DE-AC09-89SR18035**

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

Velocity 1 = 27.0003 (ft/sec) (+/- 1.6864 %)
 Velocity 2 = 13.6779 (ft/sec) (+/- 1.7009 %)
 Pressure drop = 21.4745 (psi)
 Tsat in = 285.1212 (deg F) Tsat out = 255.8495 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4047.6887 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 14868.3096 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.4327	1.5481e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.5827	1.2425e-01	1.9000e+00
2	TFM000001	86.1010	86.8358	86.4161	1.7725e-01	1.9002e+00
3	TIN000001	85.7259	86.3575	86.0879	1.3635e-01	1.9002e+00
4	TRV000001	86.0357	86.7694	86.4299	1.5768e-01	1.9002e+00
5	TSR000001	85.7521	86.2767	86.0124	1.2573e-01	1.9002e+00
6	TAO020136	86.2113	87.0529	86.6824	2.2205e-01	1.9002e+00
7	TAO050136	86.2866	86.9162	86.6052	1.5833e-01	1.9002e+00
8	TAO070136	84.1966	85.0404	84.6902	1.8503e-01	1.9001e+00
9	TAO080136	86.0737	86.7034	86.4215	1.5751e-01	1.9002e+00
10	TAO090136	86.2539	87.1980	86.7030	1.7981e-01	1.9002e+00
11	TAO100136	86.2228	86.8524	86.4708	1.4503e-01	1.9002e+00
12	TAO105136	86.7143	87.4502	87.0760	1.7407e-01	1.9002e+00
13	TAO110136	84.1291	84.7574	84.4640	1.4042e-01	1.9001e+00
14	TAO115136	86.2733	87.3261	86.6864	2.4141e-01	1.9002e+00
15	TAO120136	86.0060	86.7373	86.3146	1.4496e-01	1.9002e+00
16	TAO125136	86.2956	86.9262	86.6065	1.6146e-01	1.9002e+00
17	TAO130136	86.0333	86.6611	86.3135	1.4510e-01	1.9002e+00
18	TAO120048	86.0341	86.7691	86.4331	1.6702e-01	1.9002e+00
19	TAO130048	85.9675	86.4928	86.2066	1.3742e-01	1.9002e+00
20	TAO120224	86.0640	86.5896	86.3247	1.4273e-01	1.9002e+00
21	TAO130224	86.0722	86.7014	86.3572	1.4339e-01	1.9002e+00
22	TAO120312	85.9898	86.7256	86.2755	1.8143e-01	1.9002e+00
23	TAO130312	85.9244	86.4501	86.2016	1.2335e-01	1.9002e+00
24	TRT020000	86.2892	87.2365	86.7107	1.8785e-01	1.9002e+00
25	TRT070000	86.2552	86.8882	86.5633	1.3607e-01	1.9002e+00
26	TRT100000	86.3042	87.2478	86.8117	2.1115e-01	1.9002e+00
27	TRT120000	86.2149	87.0552	86.5803	1.7780e-01	1.9002e+00
28	TRT125000	86.2876	87.0207	86.6556	1.7956e-01	1.9002e+00
29	TRT130000	86.1947	86.7202	86.4215	1.4892e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6699	2.2259e-01	1.9011e+00
31	TAF050136	86.3923	87.0225	86.7196	1.6908e-01	1.9002e+00
32	TAF070136	86.7069	87.5434	87.1415	1.7078e-01	1.9002e+00
33	TAF080136	86.2292	86.9614	86.5934	1.4976e-01	1.9002e+00
34	TAF090136	83.9447	84.8914	84.3696	2.4566e-01	1.9001e+00
35	TAF100136	86.1924	86.7185	86.4660	1.5609e-01	1.9002e+00
36	TAF105136	85.9068	86.9519	86.5958	2.5459e-01	1.9002e+00
37	TAF110136	85.9561	86.5850	86.3079	1.4944e-01	1.9002e+00
38	TAF115136	86.7000	87.2250	86.9689	1.6845e-01	1.9002e+00
39	TAF120136	86.2074	86.7322	86.4962	1.1144e-01	1.9002e+00
40	TAF125136	86.2882	87.3320	86.7889	2.9064e-01	1.9002e+00
41	TAF130136	86.1880	87.0280	86.6246	1.4748e-01	1.9002e+00
42	TAF120048	86.5527	87.3976	86.9543	2.1208e-01	1.9002e+00
43	TAF130048	86.1171	86.9565	86.5330	1.8723e-01	1.9002e+00
44	TAF120224	86.2943	87.0299	86.6054	2.0579e-01	1.9002e+00
45	TAF130224	85.6667	86.5105	86.0928	1.9644e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.9202e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130138	86.1901	87.3456	86.7784	2.9629e-01	1.9002e+00
49	TAI130226	85.8311	86.3551	86.0872	1.6558e-01	1.9002e+00
50	TAI130314	86.3363	87.3883	86.8075	2.7974e-01	1.9002e+00
51	TAI130042	85.8169	86.7629	86.1870	1.9834e-01	1.9002e+00
52	TRR130090	85.4933	86.6474	86.0181	2.2819e-01	1.9002e+00
53	TSI000001	80.1152	80.8535	80.5666	1.7950e-01	1.9001e+00
54	TSI000002	76.1096	77.0612	76.5454	2.4767e-01	1.9000e+00
55	TSO000001	75.2059	75.9501	75.6354	1.7041e-01	1.9000e+00
56	TSO000002	80.9420	81.8911	81.4061	1.8930e-01	1.9001e+00
57	TAF020136	85.5005	86.3437	85.9097	1.7395e-01	1.9002e+00
58	TAF120312	85.9003	86.9501	86.4043	2.6567e-01	1.9002e+00
59	TAF130312	85.5840	86.2147	85.8530	1.4567e-01	1.9002e+00
60	EMPTY	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4966	2.2603e-03	0.0000e+00
63	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3350	2.4164e-03	0.0000e+00
65	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3712	6.9053e-04	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3904	9.6655e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4050	1.1714e-03	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4211	2.1065e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4387	1.8082e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4620	2.3941e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4746	1.9730e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4937	1.4797e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5113	2.2146e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5422	9.6655e-04	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6058	1.1714e-03	0.0000e+00
80	PAN020136	75.0896	78.1413	76.4766	6.5207e-01	8.9076e-01
81	PAN050136	134.7663	138.1233	136.5485	8.6065e-01	1.7143e+00
82	PAN070136	94.4390	97.9485	96.3235	6.9366e-01	9.0271e-01
83	PAN080136	47.4109	48.2502	47.7787	2.4453e-01	8.7816e-01
84	PAN090136	42.6118	43.7562	43.2756	2.4722e-01	8.7670e-01
85	PAN100136	48.6683	49.5839	49.1643	2.2509e-01	8.7864e-01
86	PAN105136	22.9947	23.9102	23.4921	2.6619e-01	8.7198e-01
87	PAN110136	24.1611	25.0003	24.5700	2.0723e-01	8.7217e-01
88	PAN115136	23.0298	24.0979	23.4372	2.4643e-01	8.7197e-01
89	PAN120136	20.2980	20.8321	20.6276	1.3824e-01	8.7153e-01
90	PAN125136	23.3820	24.2212	23.7864	1.7859e-01	8.7203e-01
91	PAN130136	23.6226	24.1567	23.8469	1.2842e-01	8.7204e-01
92	PAN120048	40.6898	41.4527	41.1064	1.9326e-01	8.7605e-01
93	PAN130048	49.7540	50.8222	50.2820	2.3520e-01	8.7903e-01
94	PAN120224	47.2569	47.9435	47.6032	1.7109e-01	8.7810e-01
95	PAN130224	52.9423	53.8578	53.4153	2.1744e-01	8.8019e-01
96	PAN120312	43.0417	43.8809	43.4201	1.9311e-01	8.7675e-01
97	PAN130312	49.4328	50.5010	49.8906	2.5139e-01	8.7890e-01
98	PAB000136	53.1159	53.8026	53.4620	1.2820e-01	5.9520e-01
99	PAB100136	37.0326	37.2157	37.1351	5.0282e-02	5.8738e-01
100	PAB125136	32.8255	33.0086	32.9116	4.4004e-02	5.8581e-01

Test: May01_01

sum1

Date: Tue May 1 11:28:53 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	52.8486	53.8251	53.3296	2.3963e-01	7.6176e-01
102	PRV000001	26.7021	26.8241	26.8193	2.4164e-02	7.5299e-01
103	PSR000001	29.2209	29.4651	29.3357	3.8286e-02	7.5358e-01
104	PFM000001	111.1275	113.7825	112.4879	6.7506e-01	5.7366e-01
105	PAN000136	589.4506	599.5214	594.5317	2.1654e+00	5.1396e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-9.9219	-8.9941	-9.7024	1.9170e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0334	9.9902e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0135	9.6655e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0790	9.8569e-02	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0009	9.5765e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0011	1.1168e-01	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.3966	1.1156e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.0002	1.1323e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.5219	9.6178e-01	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2179	2.4164e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2216	2.6559e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1965	2.9528e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.4083e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	2.9413e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT000001	-0.3343	0.2516	0.0368	8.1347e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0266	6.7888e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0221	6.1257e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0063	9.3461e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0996	8.4262e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0455	9.7935e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0404	6.4113e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0449	1.0799e-01	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	5.5243e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0134	1.0654e-01	4.1000e+00
140	IHT000013	-0.0789	0.1164	-0.0632	5.3525e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0677	8.3612e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0312	7.2330e-02	4.1000e+00
143	IHT000016	-0.2291	0.3568	-0.0182	8.6810e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0682	1.6667e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0669	1.0440e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0757	7.7324e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0367	6.4113e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0631	7.1136e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.1244	1.0559e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0736	7.8918e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0500	1.0145e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0562	6.2265e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0557	5.3525e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0574	7.9017e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0575	1.2072e-01	4.1000e+00

Test: May01_01

sum1

Date: Tue May 1 11:28:53 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	7.1136e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0911	9.5765e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0610	9.5765e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	8.3612e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0210	9.0412e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00

Test: May01_01

sum2

Date: Tue May 1 11:28:53 1990

Page: 1

Velocity 1 = 27.0184 (ft/sec) (+/- 1.6864 %)
Velocity 2 = 13.6779 (ft/sec) (+/- 1.7009 %)
Pressure drop = 21.4907 (psi)
Tsat in = 285.1318 (deg F) Tsat out = 255.8326 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4065.8013 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3264.0366 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.6370	74.4502	1.6621e-01	1.9000e+00
1	TRF000002	74.2270	74.6505	74.5684	1.1283e-01	1.9000e+00
2	TFM000001	86.1010	86.8358	86.4119	2.0657e-01	1.9002e+00
3	TIN000001	85.8313	86.4625	86.1060	1.2118e-01	1.9002e+00
4	TRV000001	86.1412	86.7694	86.4657	1.6177e-01	1.9002e+00
5	TSR000001	85.7521	86.4856	86.0455	1.6572e-01	1.9002e+00
6	TAO020136	86.3161	87.1577	86.7972	2.2817e-01	1.9002e+00
7	TAO050136	86.2866	86.8109	86.6096	1.4321e-01	1.9002e+00
8	TAO070136	84.1966	84.9355	84.7284	1.6526e-01	1.9001e+00
9	TAO080136	86.2824	86.8066	86.4861	1.3089e-01	1.9002e+00
10	TAO090136	86.1490	87.0933	86.6951	2.0089e-01	1.9002e+00
11	TAO100136	86.2228	86.8529	86.4973	1.2099e-01	1.9002e+00
12	TAO105136	86.7143	87.4502	87.0941	1.9879e-01	1.9002e+00
13	TAO110136	84.2327	84.7574	84.4921	1.5146e-01	1.9001e+00
14	TAO115136	86.2738	87.2213	86.7185	2.2773e-01	1.9002e+00
15	TAO120136	86.1087	86.6324	86.3464	1.5379e-01	1.9002e+00
16	TAO125136	86.2956	86.9250	86.6578	1.6329e-01	1.9002e+00
17	TAO130136	86.0333	86.5557	86.3466	1.3969e-01	1.9002e+00
18	TAO120048	86.1389	86.8734	86.4948	1.8662e-01	1.9002e+00
19	TAO130048	85.9675	86.5964	86.2542	1.3172e-01	1.9002e+00
20	TAO120224	86.0640	86.5896	86.3536	1.6824e-01	1.9002e+00
21	TAO130224	86.0722	86.5960	86.3906	1.6682e-01	1.9002e+00
22	TAO120312	85.8850	86.6202	86.3242	1.6154e-01	1.9002e+00
23	TAO130312	85.9244	86.3447	86.2201	1.1492e-01	1.9002e+00
24	TRT020000	86.3946	87.1317	86.7752	1.8206e-01	1.9002e+00
25	TRT070000	86.3601	86.8882	86.6300	1.5532e-01	1.9002e+00
26	TRT100000	86.5136	87.2478	86.8371	1.5847e-01	1.9002e+00
27	TRT120000	86.2149	86.9498	86.6199	1.4052e-01	1.9002e+00
28	TRT125000	86.1827	87.1238	86.6504	1.8381e-01	1.9002e+00
29	TRT130000	86.0899	86.7192	86.4731	1.3975e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6572	2.1608e-01	1.9011e+00
31	TAF050136	86.3923	87.1264	86.7285	1.4826e-01	1.9002e+00
32	TAF070136	86.6015	87.7521	87.1803	2.3196e-01	1.9002e+00
33	TAF080136	86.2292	86.9614	86.6200	1.7064e-01	1.9002e+00
34	TAF090136	83.8402	84.8908	84.4811	2.6372e-01	1.9001e+00
35	TAF100136	86.0875	86.7185	86.4651	1.6193e-01	1.9002e+00
36	TAF105136	86.1151	87.0552	86.5482	2.2630e-01	1.9002e+00
37	TAF110136	85.8506	86.5850	86.3109	1.6841e-01	1.9002e+00
38	TAF115136	86.3856	87.4345	86.9209	2.2586e-01	1.9002e+00
39	TAF120136	86.3112	86.8359	86.5491	1.3845e-01	1.9002e+00
40	TAF125136	86.2877	87.3320	86.8077	2.6057e-01	1.9002e+00
41	TAF130136	86.2934	86.9227	86.6143	1.3460e-01	1.9002e+00
42	TAF120048	86.5527	87.3976	87.0057	2.2290e-01	1.9002e+00
43	TAF130048	86.2226	86.9570	86.5543	1.6652e-01	1.9002e+00
44	TAF120224	86.2943	87.0299	86.6397	1.6752e-01	1.9002e+00
45	TAF130224	85.7721	86.4051	86.1339	1.8892e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0584	1.8640e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1558	4.5907e-02	1.9010e+00
48	TAI130138	86.1901	87.3456	86.7540	3.2198e-01	1.9002e+00
49	TAI130226	85.7262	86.4605	86.1736	1.8625e-01	1.9002e+00
50	TAI130314	86.2312	87.2830	86.8193	2.6896e-01	1.9002e+00
51	TAI130042	85.9224	86.5528	86.2053	1.5647e-01	1.9002e+00
52	TRR130090	85.5988	86.4379	85.9754	1.9970e-01	1.9002e+00
53	TSI000001	80.4312	80.8535	80.6338	1.3419e-01	1.9001e+00
54	TSI000002	75.8983	77.0612	76.4315	2.9171e-01	1.9000e+00
55	TSO000001	75.3122	75.9501	75.6637	1.5222e-01	1.9000e+00
56	TSO000002	81.0473	81.8911	81.4091	2.0537e-01	1.9001e+00
57	TAF020136	85.6054	86.2388	85.9633	1.6083e-01	1.9002e+00
58	TAF120312	85.7959	86.8453	86.4211	2.3943e-01	1.9002e+00
59	TAF130312	85.5840	86.2132	85.9248	1.6248e-01	1.9002e+00
60	EMPTY	0.4639	0.4736	0.4690	1.5467e-03	0.0000e+00
61	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4979	6.9754e-04	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5129	9.7615e-04	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3366	1.1827e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3563	6.9754e-04	0.0000e+00
66	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3905	6.9754e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4052	6.9754e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4237	2.0584e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4393	9.7615e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4638	6.9754e-04	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4772	2.1781e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4966	2.2737e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5125	9.7615e-04	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5282	1.9103e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5427	1.7263e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5620	1.4934e-03	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6070	2.2737e-03	0.0000e+00
80	PAN020136	75.3185	78.5228	76.6108	7.1679e-01	8.9083e-01
81	PAN050136	135.0715	138.2759	136.7126	5.9141e-01	1.7144e+00
82	PAN070136	94.9731	97.7196	96.4647	5.9772e-01	9.0281e-01
83	PAN080136	47.1820	48.2502	47.7550	2.4283e-01	8.7815e-01
84	PAN090136	42.9933	43.8325	43.3187	1.9186e-01	8.7671e-01
85	PAN100136	48.7446	49.8128	49.2429	2.5213e-01	8.7867e-01
86	PAN105136	23.1473	23.6813	23.4633	1.3754e-01	8.7198e-01
87	PAN110136	24.3137	25.0003	24.6469	1.8007e-01	8.7218e-01
88	PAN115136	23.0298	23.7164	23.3505	1.7410e-01	8.7196e-01
89	PAN120136	20.5269	20.9084	20.7059	1.0039e-01	8.7154e-01
90	PAN125136	23.4583	23.9923	23.7417	1.4526e-01	8.7202e-01
91	PAN130136	23.6989	24.4619	23.9263	1.4650e-01	8.7205e-01
92	PAN120048	40.6898	41.5290	41.1398	2.0966e-01	8.7606e-01
93	PAN130048	49.8303	50.7459	50.3177	2.2179e-01	8.7905e-01
94	PAN120224	47.1806	48.2487	47.6850	2.3711e-01	8.7813e-01
95	PAN130224	52.9423	53.9341	53.4359	2.2140e-01	8.8020e-01
96	PAN120312	43.1180	43.9572	43.5213	1.9760e-01	8.7678e-01
97	PAN130312	49.5091	50.5010	49.9109	2.3862e-01	8.7890e-01
98	PAB000136	53.1617	53.7110	53.4709	1.3166e-01	5.9521e-01
99	PAB100136	36.9868	37.2615	37.1241	5.3678e-02	5.8738e-01
100	PAB125136	32.8255	32.9629	32.9022	3.8963e-02	5.8580e-01

Test: May01_01

sum2

Date: Tue May 1 11:28:53 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	52.8486	53.9472	53.3145	2.3331e-01	7.6175e-01
102	PRV000001	26.8241	26.8241	26.8241	3.8542e-06	7.5299e-01
103	PSR000001	29.2209	29.3430	29.2957	6.0094e-02	7.5357e-01
104	PFM000001	111.3106	113.5078	112.6390	5.3421e-01	5.7384e-01
105	PAN000136	589.9083	600.4369	594.9812	2.2266e+00	5.1399e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-9.9756	-9.4043	-9.7259	1.4746e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1827e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0172	6.9053e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0451	7.9736e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0207	8.3122e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0931	9.6990e-02	8.1000e-01
116	VPW000005	-0.1202	0.0751	-0.0086	9.7656e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0223	9.3412e-02	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.3807	9.6951e-01	8.1000e+00
119	IPW000002	-2.9267	2.9271	0.2988	1.0945e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.5999	1.1941e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2438	2.3483e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2146	2.6368e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.1662	3.0305e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0213	3.5511e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	3.3665e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.6690e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	3.1000e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0324	9.4620e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0176	9.9792e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0188	6.9053e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0218	8.3705e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0276	9.8153e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1106	9.4962e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0119	9.6150e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0189	9.3931e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0319	9.2189e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0568	8.8783e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	6.9053e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0205	9.4962e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0549	7.5986e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0678	1.0156e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0359	1.0299e-01	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0258	5.5804e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.1004	1.6209e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0485	9.9303e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0840	1.0268e-01	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0203	7.9532e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0507	7.2937e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1226	9.8153e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0489	9.2540e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0247	9.8483e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0561	6.2908e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0474	6.4688e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0460	6.7148e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0542	9.7656e-02	4.1000e+00

Test: May01_01

sum2

Date: Tue May 1 11:28:53 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0068	6.1868e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0776	9.8153e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0635	9.5132e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0073	7.4477e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0040	7.4477e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0494	1.0409e-01	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0222	9.0949e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0000	7.9736e-02	4.1000e+00

Test: May01_01 dif Date: Tue May 1 11:28:53 1990 Page: 1

Velocity 1 = 0.018101 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.016199 (psi)

Tsat in = 0.010620 (deg F) Tsat out = 0.016907 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0175	0.0235
1	TRF000002	0.0143	0.0192
2	TFM000001	0.0042	0.0049
3	TIN000001	0.0181	0.0210
4	TRV000001	0.0358	0.0414
5	TSR000001	0.0331	0.0385
6	TAO020136	0.1148	0.1324
7	TAO050136	0.0044	0.0051
8	TAO070136	0.0382	0.0451
9	TAO080136	0.0646	0.0747
10	TAO090136	0.0079	0.0091
11	TAO100136	0.0265	0.0306
12	TAO105136	0.0181	0.0208
13	TAO110136	0.0281	0.0333
14	TAO115136	0.0321	0.0370
15	TAO120136	0.0318	0.0368
16	TAO125136	0.0513	0.0592
17	TAO130136	0.0331	0.0384
18	TAO120048	0.0617	0.0714
19	TAO130048	0.0476	0.0552
20	TAO120224	0.0289	0.0335
21	TAO130224	0.0334	0.0387
22	TAO120312	0.0487	0.0565
23	TAO130312	0.0185	0.0215
24	TRT020000	0.0645	0.0744
25	TRT070000	0.0667	0.0770
26	TRT100000	0.0254	0.0293
27	TRT120000	0.0396	0.0457
28	TRT125000	0.0052	0.0060
29	TRT130000	0.0516	0.0597
30	EMPTY	0.0127	0.0320
31	TAF050136	0.0089	0.0103
32	TAF070136	0.0388	0.0445
33	TAF080136	0.0266	0.0307
34	TAF090136	0.1115	0.1322
35	TAF100136	0.0009	0.0010
36	TAF105136	0.0476	0.0550
37	TAF110136	0.0030	0.0035
38	TAF115136	0.0480	0.0552
39	TAF120136	0.0529	0.0612
40	TAF125136	0.0188	0.0217
41	TAF130136	0.0103	0.0119
42	TAF120048	0.0514	0.0591
43	TAF130048	0.0213	0.0246
44	TAF120224	0.0343	0.0396
45	TAF130224	0.0411	0.0477

#	Name	Abs Diff	%Diff
46	EMPTY	0.0356	0.0935
47	EMPTY	0.0136	0.0347
48	TAI130138	0.0244	0.0281
49	TAI130226	0.0864	0.1004
50	TAI130314	0.0118	0.0136
51	TAI130042	0.0183	0.0212
52	TRR130090	0.0427	0.0496
53	TSI000001	0.0672	0.0834
54	TSI000002	0.1139	0.1488
55	TSO000001	0.0283	0.0374
56	TSO000002	0.0030	0.0037
57	TAF020136	0.0536	0.0624
58	TAF120312	0.0168	0.0194
59	TAF130312	0.0718	0.0836
60	EMPTY	0.0003	0.0640
61	EMPTY	0.0001	0.0207
62	EMPTY	0.0013	0.2618
63	EMPTY	0.0002	0.0390
64	EMPTY	0.0016	0.4776
65	EMPTY	0.0001	0.0281
66	EMPTY	0.0001	0.0269
67	EMPTY	0.0001	0.0256
68	EMPTY	0.0002	0.0494
69	EMPTY	0.0026	0.6174
70	EMPTY	0.0006	0.1368
71	EMPTY	0.0018	0.3896
72	EMPTY	0.0026	0.5478
73	EMPTY	0.0029	0.5874
74	EMPTY	0.0012	0.2347
75	EMPTY	0.0007	0.1327
76	EMPTY	0.0005	0.0922
77	EMPTY	0.0004	0.0712
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0012	0.1981
80	PAN020136	0.1342	0.1755
81	PAN050136	0.1641	0.1202
82	PAN070136	0.1412	0.1466
83	PAN080136	0.0237	0.0496
84	PAN090136	0.0431	0.0996
85	PAN100136	0.0786	0.1599
86	PAN105136	0.0288	0.1226
87	PAN110136	0.0769	0.3130
88	PAN115136	0.0867	0.3699
89	PAN120136	0.0783	0.3796
90	PAN125136	0.0447	0.1879
91	PAN130136	0.0794	0.3330
92	PAN120048	0.0334	0.0813
93	PAN130048	0.0357	0.0710
94	PAN120224	0.0818	0.1718
95	PAN130224	0.0206	0.0386
96	PAN120312	0.1012	0.2331
97	PAN130312	0.0203	0.0407
98	PAB000136	0.0089	0.0166
99	PAB100136	0.0110	0.0296
100	PAB125136	0.0094	0.0286

Test: May01_01

dif

Date: Tue May 1 11:28:53 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0151	0.0283
102	PRV000001	0.0048	0.0179
103	PSR000001	0.0400	0.1363
104	PFM000001	0.1511	0.1343
105	PAN000136	0.4495	0.0756
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0309
108	EMPTY	0.0235	0.2422
109	EMPTY	0.0001	2.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	2.2222
112	VPW000001	0.0229	401.7544
113	VPW000002	0.0117	35.0299
114	VPW000003	0.0072	53.3333
115	VPW000004	0.0141	17.8481
116	VPW000005	0.0095	1055.5557
117	VPW000006	0.0234	2127.2727
118	IPW000001	0.0159	1.1385
119	IPW000002	0.2986	149300.0000
120	IPW000003	0.0780	14.9454
121	IPW000004	0.0259	11.8862
122	IPW000005	0.0070	3.1588
123	IPW000006	0.0303	15.4198
124	EMPTY	0.0001	0.4717
125	EMPTY	0.0002	1.3793
126	EMPTY	0.0001	0.5650
127	EMPTY	0.0005	3.1250
128	IHT000001	0.0044	11.9565
129	IHT000002	0.0087	97.7528
130	IHT000003	0.0078	29.3233
131	IHT000004	0.0003	1.3575
132	IHT000005	0.0213	338.0952
133	IHT000006	0.0110	11.0442
134	IHT000007	0.0336	73.8462
135	IHT000008	0.0104	35.4949
136	IHT000009	0.0085	21.0396
137	IHT000010	0.0119	26.5033
138	IHT000011	0.0078	108.3333
139	IHT000012	0.0071	52.9851
140	IHT000013	0.0083	13.1329
141	IHT000014	0.0001	0.1477
142	IHT000015	0.0047	15.0641
143	IHT000016	0.0076	41.7582
144	IHT000017	0.0322	47.2141
145	IHT000018	0.0184	27.5037
146	IHT000019	0.0083	10.9643
147	IHT000020	0.0164	44.6866
148	IHT000021	0.0124	19.6513
149	IHT000022	0.0018	1.4469
150	IHT000023	0.0247	33.5598
151	IHT000024	0.0253	50.6000
152	IHT000025	0.0001	0.1779
153	IHT000026	0.0083	14.9013
154	IHT000027	0.0114	19.8606
155	IHT000028	0.0033	5.7391

Test: May01_01 dif Date: Tue May 1 11:28:53 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0075	1071.4287
157	IHT000030	0.0135	14.8189
158	IHT000031	0.0025	4.0984
159	IHT000032	0.0118	61.7801
160	IHT000033	0.0001	2.5641
161	IHT000034	0.0015	3.1315
162	IHT000035	0.0012	5.7143
163	IHT000036	0.0117	100.0000

Velocity 1 = 26.1577 (ft/sec) (+/- 1.6884 %)
Velocity 2 = 13.6787 (ft/sec) (+/- 1.7009 %)
Pressure drop = 19.8630 (psi)
Tsats in = 282.9363 (deg F) Tsats out = 255.3293 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4457.9346 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1142.4091 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.6370	74.4625	1.5320e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.5954	1.1953e-01	1.9000e+00
2	TFM000001	86.6251	87.4642	87.1118	2.1148e-01	1.9002e+00
3	TIN000001	86.3573	86.9882	86.7738	1.2914e-01	1.9002e+00
4	TRV000001	86.7694	87.6049	87.0777	1.6484e-01	1.9002e+00
5	TSR000001	86.3789	86.9033	86.6894	1.3707e-01	1.9002e+00
6	TAO020136	86.9470	87.7882	87.4182	2.3088e-01	1.9002e+00
7	TAO050136	86.9127	87.4368	87.2648	1.2462e-01	1.9002e+00
8	TAO070136	84.8299	85.6728	85.2389	1.7649e-01	1.9002e+00
9	TAO080136	86.6997	87.3285	87.0976	1.2711e-01	1.9002e+00
10	TAO090136	86.8826	87.7215	87.3399	1.8796e-01	1.9002e+00
11	TAO100136	86.8518	87.4816	87.1249	1.4841e-01	1.9002e+00
12	TAO105136	87.4497	88.0806	87.7275	1.8478e-01	1.9002e+00
13	TAO110136	84.6498	85.1743	84.9563	1.4944e-01	1.9002e+00
14	TAO115136	86.8006	87.7472	87.3267	2.1576e-01	1.9002e+00
15	TAO120136	86.7330	87.3612	86.9931	1.4526e-01	1.9002e+00
16	TAO125136	86.9244	87.6587	87.2603	1.7859e-01	1.9002e+00
17	TAO130136	86.6534	87.1755	86.9875	1.3486e-01	1.9002e+00
18	TAO120048	86.6632	87.5026	87.1669	1.6824e-01	1.9002e+00
19	TAO130048	86.4897	87.1190	86.8212	1.6041e-01	1.9002e+00
20	TAO120224	86.6936	87.4286	87.0004	1.7470e-01	1.9002e+00
21	TAO130224	86.6965	87.3247	87.0190	1.5213e-01	1.9002e+00
22	TAO120312	86.6195	87.4595	86.9770	1.7368e-01	1.9002e+00
23	TAO130312	86.6572	87.1815	86.8675	1.1815e-01	1.9002e+00
24	TRT020000	87.0264	87.7632	87.3802	1.9797e-01	1.9002e+00
25	TRT070000	86.8894	87.5221	87.2310	1.4987e-01	1.9002e+00
26	TRT100000	87.0371	87.8754	87.5066	1.9658e-01	1.9002e+00
27	TRT120000	86.9487	87.5784	87.2805	1.5918e-01	1.9002e+00
28	TRT125000	86.8083	87.7489	87.3020	2.0473e-01	1.9002e+00
29	TRT130000	86.7176	87.2423	87.0868	1.3275e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6883	1.8410e-01	1.9011e+00
31	TAF050136	87.0201	87.7538	87.3725	1.6768e-01	1.9002e+00
32	TAF070136	87.4368	88.1694	87.8055	1.9733e-01	1.9002e+00
33	TAF080136	86.9589	87.4825	87.2225	1.4838e-01	1.9002e+00
34	TAF090136	84.3648	85.4155	84.9281	2.5444e-01	1.9002e+00
35	TAF100136	86.7180	87.4540	87.1137	1.7062e-01	1.9002e+00
36	TAF105136	86.6363	87.6793	87.1662	2.4465e-01	1.9002e+00
37	TAF110136	86.6879	87.3174	86.9400	1.3234e-01	1.9002e+00
38	TAF115136	87.1191	87.9581	87.5681	1.7850e-01	1.9002e+00
39	TAF120136	86.9386	87.4631	87.1739	1.2987e-01	1.9002e+00
40	TAF125136	86.9135	87.8533	87.4475	2.7207e-01	1.9002e+00
41	TAF130136	86.9220	87.5510	87.2405	1.6268e-01	1.9002e+00
42	TAF120048	87.0822	88.0315	87.5587	2.0470e-01	1.9002e+00
43	TAF130048	86.7468	87.3762	87.1578	1.4033e-01	1.9002e+00
44	TAF120224	86.9244	87.6597	87.3110	1.9950e-01	1.9002e+00
45	TAF130224	86.4055	87.1446	86.7603	1.6741e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0296	1.9159e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130138	86.9250	87.9750	87.4418	2.9445e-01	1.9002e+00
49	TAI130226	86.3541	87.0880	86.7443	1.7330e-01	1.9002e+00
50	TAI130314	86.8625	88.1240	87.5059	3.1618e-01	1.9002e+00
51	TAI130042	86.2372	87.1828	86.8172	2.1769e-01	1.9002e+00
52	TRR130090	86.2271	87.1711	86.6343	2.3553e-01	1.9002e+00
53	TSI000001	80.7470	81.2745	81.0508	1.6994e-01	1.9001e+00
54	TSI000002	76.1096	77.0612	76.6806	2.6133e-01	1.9000e+00
55	TSO000001	75.4188	76.1629	75.8311	1.7537e-01	1.9000e+00
56	TSO000002	81.3635	82.2069	81.7348	2.0784e-01	1.9001e+00
57	TAF020136	86.2398	86.8724	86.5856	1.6912e-01	1.9002e+00
58	TAF120312	86.5297	87.5789	87.0293	2.7841e-01	1.9002e+00
59	TAF130312	86.0029	86.8421	86.5232	1.6414e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4831	1.1714e-03	0.0000e+00
61	EMPTY	0.4932	0.5029	0.4980	9.8648e-04	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5117	1.9730e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3406	2.1065e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3762	9.6655e-04	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4275	2.4484e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4441	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4681	1.7115e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4822	2.1065e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.5008	2.4484e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5173	1.1714e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5328	1.6028e-03	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5470	6.9053e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5671	1.7115e-03	0.0000e+00
78	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6152	0.6110	1.9754e-03	0.0000e+00
80	PAN020136	69.6727	72.2667	70.7546	6.9562e-01	8.8780e-01
81	PAN050136	125.1533	127.7473	126.5083	5.4595e-01	1.7095e+00
82	PAN070136	88.1066	90.1665	89.0237	5.0148e-01	8.9802e-01
83	PAN080136	43.4436	45.1984	44.1944	3.4547e-01	8.7699e-01
84	PAN090136	39.4075	40.2467	39.9064	2.1033e-01	8.7570e-01
85	PAN100136	45.0825	45.8455	45.3694	2.0130e-01	8.7736e-01
86	PAN105136	21.3925	22.2317	21.8121	2.2509e-01	8.7171e-01
87	PAN110136	22.4063	23.1693	22.7603	2.0083e-01	8.7186e-01
88	PAN115136	21.5039	22.3432	21.8045	2.0588e-01	8.7171e-01
89	PAN120136	18.7721	19.2299	18.9979	9.4966e-02	8.7130e-01
90	PAN125136	21.7798	22.3902	22.0484	1.6690e-01	8.7174e-01
91	PAN130136	21.7916	22.2494	22.0189	1.0952e-01	8.7174e-01
92	PAN120048	37.6380	38.6298	38.1355	2.4529e-01	8.7521e-01
93	PAN130048	46.3208	47.3126	46.6428	2.3289e-01	8.7778e-01
94	PAN120224	43.8237	44.5866	44.1105	1.8596e-01	8.7696e-01
95	PAN130224	49.0513	49.9668	49.4862	2.0751e-01	8.7875e-01
96	PAN120312	40.1425	40.9055	40.4645	2.2511e-01	8.7586e-01
97	PAN130312	45.5419	46.6100	46.0408	2.1536e-01	8.7758e-01
98	PAB000136	51.3764	51.9257	51.6447	1.3209e-01	5.9420e-01
99	PAB100136	36.3917	36.6664	36.5483	6.2101e-02	5.8715e-01
100	PAB125136	32.5509	32.7340	32.6205	4.1607e-02	5.8571e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	51.0175	51.8720	51.4179	1.9268e-01	7.6094e-01
102	PRV0000001	26.8241	26.9462	26.8266	1.7263e-02	7.5299e-01
103	PSR0000001	29.2209	29.3430	29.2624	5.8413e-02	7.5356e-01
104	PFM0000001	104.6272	106.5498	105.5409	4.9233e-01	5.6535e-01
105	PAN000136	545.9630	554.6605	549.9181	2.1526e+00	5.1085e+00
106	PFM0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.3652	-9.7842	1.2944e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW0000001	-0.0451	0.1502	0.0018	8.4262e-02	8.1000e-01
113	VPW0000002	-0.0451	0.1502	-0.0334	4.6855e-02	8.1000e-01
114	VPW0000003	-0.0526	0.1427	-0.0214	7.2330e-02	8.1000e-01
115	VPW0000004	-0.3681	0.0225	-0.1064	1.0145e-01	8.1000e-01
116	VPW0000005	-0.1202	0.0751	0.0087	9.3461e-02	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0028	9.3710e-02	8.1000e-01
118	IPW0000001	-2.1775	3.6795	-0.4595	1.3457e+00	8.1000e+00
119	IPW0000002	-2.9267	0.9758	-0.4681	1.0287e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-1.0679	1.0832e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.1691	2.4662e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	0.0323	2.8400e-01	2.0000e+00
123	IPW0000006	-0.7043	0.2723	-0.1965	3.5513e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0213	2.9197e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.3114e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	2.8946e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0524	1.0052e-01	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0245	9.5112e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0227	9.2456e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0455	9.1779e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0024	1.0014e-01	4.1000e+00
133	IHT0000006	-0.3418	0.0488	-0.1074	9.6655e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
135	IHT0000008	-0.0488	0.3418	0.0332	1.0507e-01	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0326	9.1354e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0566	8.7880e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
139	IHT0000012	-0.0563	0.1390	-0.0095	8.4262e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	IHT0000014	-0.1315	0.4545	0.0716	1.1133e-01	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0312	8.2393e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0299	6.2265e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0917	1.8924e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0551	1.0145e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0874	9.6735e-02	4.1000e+00
147	IHT0000020	-0.2554	0.1352	0.0024	1.0014e-01	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0514	7.2330e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.0931	9.6655e-02	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0385	9.5765e-02	4.1000e+00
151	IHT0000024	-0.0789	0.1164	0.0266	9.8332e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0562	8.3612e-02	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0457	6.6498e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0536	9.6735e-02	4.1000e+00

Test: May01_02

sum1

Date: Tue May 1 11:33:27 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0032	8.6810e-02	4.1000e+00
157	IHT000030	-0.3606	0.2253	-0.0715	1.1995e-01	4.1000e+00
158	IHT000031	-0.3305	0.0601	-0.0532	1.0507e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0152	1.0052e-01	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0078	9.6332e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0440	9.4702e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0445	9.7377e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0117	7.2866e-02	4.1000e+00

Velocity 1 = 26.1936 (ft/sec) (+/- 1.6883 %)
Velocity 2 = 13.6787 (ft/sec) (+/- 1.7009 %)
Pressure drop = 19.8751 (psi)
Tsats in = 282.9588 (deg F) Tsats out = 255.3135 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2761.2070 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3858.0286 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.6370	74.4633	1.6067e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.6418	1.3637e-01	1.9000e+00
2	TFM000001	86.6256	87.4642	87.1560	2.0788e-01	1.9002e+00
3	TIN000001	86.4622	87.1984	86.8016	1.5664e-01	1.9002e+00
4	TRV000001	86.7676	87.5008	87.1353	1.7627e-01	1.9002e+00
5	TSR000001	86.4837	87.0081	86.6979	1.4498e-01	1.9002e+00
6	TAO020136	87.0524	87.7882	87.4663	2.1065e-01	1.9002e+00
7	TAO050136	87.0175	87.7500	87.3210	1.5450e-01	1.9002e+00
8	TAO070136	84.9349	85.6728	85.2924	1.8108e-01	1.9002e+00
9	TAO080136	86.9083	87.4323	87.1378	1.2417e-01	1.9002e+00
10	TAO090136	87.0920	87.7215	87.3620	1.7913e-01	1.9002e+00
11	TAO100136	86.9566	87.3768	87.1775	1.2539e-01	1.9002e+00
12	TAO105136	87.3450	88.1854	87.7889	2.3612e-01	1.9002e+00
13	TAO110136	84.6498	85.3827	84.9903	1.7705e-01	1.9002e+00
14	TAO115136	87.1154	87.9576	87.4576	1.9979e-01	1.9002e+00
15	TAO120136	86.7330	87.3612	87.0813	1.5003e-01	1.9002e+00
16	TAO125136	87.0292	87.7635	87.3377	1.7180e-01	1.9002e+00
17	TAO130136	86.7582	87.2803	87.0262	1.2059e-01	1.9002e+00
18	TAO120048	86.9776	87.5026	87.2007	1.4147e-01	1.9002e+00
19	TAO130048	86.5946	87.3279	86.9239	1.6568e-01	1.9002e+00
20	TAO120224	86.6940	87.4286	87.0559	1.7808e-01	1.9002e+00
21	TAO130224	86.8013	87.3247	87.0830	1.4205e-01	1.9002e+00
22	TAO120312	86.7247	87.3553	87.0271	1.5703e-01	1.9002e+00
23	TAO130312	86.6572	87.2868	86.9081	1.4346e-01	1.9002e+00
24	TRT020000	87.0268	87.8679	87.4238	2.1392e-01	1.9002e+00
25	TRT070000	86.8894	87.6268	87.2809	1.6388e-01	1.9002e+00
26	TRT100000	87.0371	87.7710	87.5034	1.6432e-01	1.9002e+00
27	TRT120000	87.0535	87.5784	87.2915	1.3343e-01	1.9002e+00
28	TRT125000	86.9131	87.7489	87.3185	1.8555e-01	1.9002e+00
29	TRT130000	86.8224	87.5561	87.1520	1.4208e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5822	2.1597e-01	1.9011e+00
31	TAF050136	87.1249	87.8585	87.4459	1.7173e-01	1.9002e+00
32	TAF070136	87.3333	88.4827	87.8748	2.1088e-01	1.9002e+00
33	TAF080136	86.9589	87.6906	87.3087	1.5913e-01	1.9002e+00
34	TAF090136	84.3648	85.6253	84.9738	3.0697e-01	1.9002e+00
35	TAF100136	86.8234	87.4540	87.1689	1.5767e-01	1.9002e+00
36	TAF105136	86.7396	87.7840	87.2706	2.1256e-01	1.9002e+00
37	TAF110136	86.6879	87.3174	86.9729	1.5140e-01	1.9002e+00
38	TAF115136	87.2239	87.9581	87.6264	1.8576e-01	1.9002e+00
39	TAF120136	86.9386	87.5678	87.2491	1.5124e-01	1.9002e+00
40	TAF125136	87.1214	88.0615	87.5266	2.4781e-01	1.9002e+00
41	TAF130136	86.9215	87.5504	87.2770	1.2637e-01	1.9002e+00
42	TAF120048	87.1870	88.1362	87.6826	2.1556e-01	1.9002e+00
43	TAF130048	86.9559	87.5858	87.2261	1.6028e-01	1.9002e+00
44	TAF120224	86.8192	87.6597	87.3167	1.9504e-01	1.9002e+00
45	TAF130224	86.4061	87.1435	86.8062	1.7071e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0584	2.1393e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1558	4.5907e-02	1.9010e+00
48	TAI130138	86.8209	87.9750	87.4823	2.8431e-01	1.9002e+00
49	TAI130226	86.4589	87.4018	86.8270	1.8159e-01	1.9002e+00
50	TAI130314	87.0723	88.0187	87.5532	2.9264e-01	1.9002e+00
51	TAI130042	86.5521	87.2876	86.8997	2.0136e-01	1.9002e+00
52	TRR130090	86.2276	87.2757	86.7495	2.5185e-01	1.9002e+00
53	TSI000001	80.7470	81.3797	81.0978	1.6305e-01	1.9001e+00
54	TSI000002	76.3216	77.3778	76.7332	2.5347e-01	1.9000e+00
55	TSO000001	75.4188	76.2686	75.8459	2.0642e-01	1.9000e+00
56	TSO000002	81.2581	82.2069	81.7832	2.1359e-01	1.9001e+00
57	TAF020136	86.2392	86.9772	86.6442	1.7123e-01	1.9002e+00
58	TAF120312	86.6345	87.4742	87.0844	2.2861e-01	1.9002e+00
59	TAF130312	86.2123	86.9466	86.5786	1.7415e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4833	6.9754e-04	0.0000e+00
61	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
62	EMPTY	0.5078	0.5176	0.5125	1.3951e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5275	9.7615e-04	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3416	9.7615e-04	0.0000e+00
65	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3763	1.1827e-03	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4099	1.1827e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4283	2.2287e-03	0.0000e+00
70	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4680	1.8234e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4825	1.9103e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.5009	2.4247e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5173	1.1827e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5326	1.3508e-03	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5475	1.6172e-03	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5671	1.7263e-03	0.0000e+00
78	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
79	EMPTY	0.6104	0.6152	0.6113	1.9883e-03	0.0000e+00
80	PAN020136	69.8253	72.4956	70.7813	6.0918e-01	8.8781e-01
81	PAN050136	125.3059	128.0525	126.8816	5.1875e-01	1.7097e+00
82	PAN070136	87.6488	89.9377	88.6702	4.8748e-01	8.9780e-01
83	PAN080136	43.9014	44.7406	44.2891	1.9873e-01	8.7702e-01
84	PAN090136	39.7889	40.4756	40.0848	1.7935e-01	8.7575e-01
85	PAN100136	45.0062	45.6166	45.2896	1.4609e-01	8.7734e-01
86	PAN105136	21.7740	22.3080	22.0075	1.1902e-01	8.7174e-01
87	PAN110136	22.4063	22.9404	22.6414	1.2345e-01	8.7184e-01
88	PAN115136	21.4276	21.9617	21.6409	1.2359e-01	8.7168e-01
89	PAN120136	18.9247	19.3825	19.0866	1.0520e-01	8.7131e-01
90	PAN125136	21.7798	22.0850	21.9418	9.4258e-02	8.7173e-01
91	PAN130136	21.8679	22.2494	22.0454	1.0376e-01	8.7174e-01
92	PAN120048	37.7143	38.4772	38.1036	1.5199e-01	8.7520e-01
93	PAN130048	46.0919	47.1600	46.5232	1.8853e-01	8.7774e-01
94	PAN120224	43.7474	44.5866	44.0463	1.7608e-01	8.7694e-01
95	PAN130224	49.1276	49.8142	49.4592	1.6075e-01	8.7874e-01
96	PAN120312	39.9137	40.8292	40.3014	1.9253e-01	8.7581e-01
97	PAN130312	45.6944	46.5337	46.0619	1.7037e-01	8.7759e-01
98	PAB000136	51.4222	51.9715	51.6632	1.2067e-01	5.9421e-01
99	PAB100136	36.4375	36.6206	36.5263	4.7100e-02	5.8714e-01
100	PAB125136	32.5509	32.6882	32.6116	4.3213e-02	5.8570e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	51.1396	51.6279	51.4087	1.5356e-01	7.6093e-01
102	PRV0000001	26.7021	26.8241	26.8216	1.7439e-02	7.5299e-01
103	PSR0000001	29.2209	29.3430	29.2334	3.7334e-02	7.5355e-01
104	PFM0000001	104.8103	107.2822	105.8305	6.6046e-01	5.6569e-01
105	PAN000136	545.9630	556.9493	550.2510	1.8774e+00	5.1087e+00
106	PFM0000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1827e-03	0.0000e+00
108	EMPTY	-9.9854	-9.5166	-9.7840	1.0311e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW0000001	-0.2404	0.1502	-0.0092	8.6187e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0371	8.8783e-02	8.1000e-01
114	VPW0000003	-0.2479	0.1427	-0.0327	8.2141e-02	8.1000e-01
115	VPW0000004	-0.3681	0.2178	-0.0771	1.1362e-01	8.1000e-01
116	VPW0000005	-0.1202	0.2704	-0.0086	1.1276e-01	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0263	1.1276e-01	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-0.5439	1.2819e+00	8.1000e+00
119	IPW0000002	-2.9267	0.9758	-0.3383	1.1535e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.8387	1.2979e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.1143	2.4037e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	0.0046	2.7013e-01	2.0000e+00
123	IPW0000006	-0.7043	0.7606	-0.2459	3.2155e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0204	3.2562e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.9041e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.5511e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.1163e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0484	6.8582e-02	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0255	8.7123e-02	4.1000e+00
130	IHT0000003	0.0188	0.4094	0.0387	7.1817e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0258	5.5804e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0117	1.0315e-01	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0987	8.4860e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0597	9.5132e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0149	9.2540e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0638	6.9053e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0568	8.8783e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0071	6.8582e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0165	9.7490e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0669	6.1868e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0519	8.3705e-02	4.1000e+00
142	IHT0000015	0.0000	0.1953	0.0359	7.6412e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0258	5.5804e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.1004	1.8064e-01	4.1000e+00
145	IHT0000018	-0.1841	0.0113	-0.0645	9.6150e-02	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0960	9.4962e-02	4.1000e+00
147	IHT0000020	-0.0601	0.1352	-0.0282	7.2937e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0547	6.9053e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.1067	9.8483e-02	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0449	9.3931e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0487	1.0955e-01	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0641	9.3412e-02	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0435	7.9736e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0340	8.4477e-02	4.1000e+00
155	IHT0000028	-0.2216	0.3643	-0.0462	1.1448e-01	4.1000e+00

Test: May01_02

sum2

Date: Tue May 1 11:33:27 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.3718	-0.0029	8.7680e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0816	1.0548e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0635	1.0315e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0153	7.4477e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	7.9736e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0694	1.2041e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0262	1.0076e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0319	7.2937e-02	4.1000e+00

Test: May01_02 dif Date: Tue May 1 11:33:27 1990 Page: 1

Velocity 1 = 0.035900 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.012098 (psi)

Tsat in = 0.022491 (deg F) Tsat out = 0.015793 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0008	0.0011
1	TRF000002	0.0464	0.0622
2	TFM000001	0.0442	0.0507
3	TIN000001	0.0278	0.0320
4	TRV000001	0.0576	0.0662
5	TSR000001	0.0085	0.0098
6	TAO020136	0.0481	0.0550
7	TAO050136	0.0562	0.0644
8	TAO070136	0.0535	0.0628
9	TAO080136	0.0402	0.0462
10	TAO090136	0.0221	0.0253
11	TAO100136	0.0526	0.0604
12	TAO105136	0.0614	0.0700
13	TAO110136	0.0340	0.0400
14	TAO115136	0.1309	0.1499
15	TAO120136	0.0882	0.1014
16	TAO125136	0.0774	0.0887
17	TAO130136	0.0387	0.0445
18	TAO120048	0.0338	0.0388
19	TAO130048	0.1027	0.1183
20	TAO120224	0.0555	0.0638
21	TAO130224	0.0640	0.0736
22	TAO120312	0.0501	0.0576
23	TAO130312	0.0406	0.0467
24	TRT020000	0.0436	0.0499
25	TRT070000	0.0499	0.0572
26	TRT100000	0.0032	0.0037
27	TRT120000	0.0110	0.0126
28	TRT125000	0.0165	0.0189
29	TRT130000	0.0652	0.0749
30	EMPTY	0.1061	0.2673
31	TAF050136	0.0734	0.0840
32	TAF070136	0.0693	0.0789
33	TAF080136	0.0862	0.0988
34	TAF090136	0.0457	0.0538
35	TAF100136	0.0552	0.0634
36	TAF105136	0.1044	0.1198
37	TAF110136	0.0329	0.0378
38	TAF115136	0.0583	0.0666
39	TAF120136	0.0752	0.0863
40	TAF125136	0.0791	0.0905
41	TAF130136	0.0365	0.0418
42	TAF120048	0.1239	0.1415
43	TAF130048	0.0683	0.0784
44	TAF120224	0.0057	0.0065
45	TAF130224	0.0459	0.0529

#	Name	Abs Diff	%Diff
46	EMPTY	0.0288	0.0757
47	EMPTY	0.0136	0.0347
48	TAI130138	0.0405	0.0463
49	TAI130226	0.0827	0.0953
50	TAI130314	0.0473	0.0541
51	TAI130042	0.0825	0.0950
52	TRR130090	0.1152	0.1330
53	TSI000001	0.0470	0.0580
54	TSI000002	0.0526	0.0686
55	TSO000001	0.0148	0.0195
56	TSO000002	0.0484	0.0592
57	TAF020136	0.0586	0.0677
58	TAF120312	0.0551	0.0633
59	TAF130312	0.0554	0.0640
60	EMPTY	0.0002	0.0414
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0008	0.1563
63	EMPTY	0.0003	0.0569
64	EMPTY	0.0010	0.2936
65	EMPTY	0.0001	0.0277
66	EMPTY	0.0001	0.0266
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0244
69	EMPTY	0.0008	0.1871
70	EMPTY	0.0002	0.0450
71	EMPTY	0.0001	0.0214
72	EMPTY	0.0003	0.0622
73	EMPTY	0.0001	0.0200
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0002	0.0375
76	EMPTY	0.0005	0.0914
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0003	0.0491
80	PAN020136	0.0267	0.0377
81	PAN050136	0.3733	0.2951
82	PAN070136	0.3535	0.3971
83	PAN080136	0.0947	0.2143
84	PAN090136	0.1784	0.4471
85	PAN100136	0.0798	0.1759
86	PAN105136	0.1954	0.8958
87	PAN110136	0.1189	0.5224
88	PAN115136	0.1636	0.7503
89	PAN120136	0.0887	0.4669
90	PAN125136	0.1066	0.4835
91	PAN130136	0.0265	0.1204
92	PAN120048	0.0319	0.0837
93	PAN130048	0.1196	0.2564
94	PAN120224	0.0642	0.1455
95	PAN130224	0.0270	0.0546
96	PAN120312	0.1631	0.4031
97	PAN130312	0.0211	0.0458
98	PAB000136	0.0185	0.0358
99	PAB100136	0.0220	0.0602
100	PAB125136	0.0089	0.0273

Test: May01_02

dif

Date: Tue May 1 11:33:27 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0092	0.0179
102	PRV000001	0.0050	0.0186
103	PSR000001	0.0290	0.0991
104	PFM000001	0.2896	0.2744
105	PAN000136	0.3329	0.0605
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.0619
108	EMPTY	0.0002	0.0020
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0110	611.1111
113	VPW000002	0.0037	11.0778
114	VPW000003	0.0113	52.8037
115	VPW000004	0.0293	27.5376
116	VPW000005	0.0173	198.8506
117	VPW000006	0.0235	839.2858
118	IPW000001	0.0844	18.3678
119	IPW000002	0.1298	27.7291
120	IPW000003	0.2292	21.4627
121	IPW000004	0.0548	32.4069
122	IPW000005	0.0277	85.7585
123	IPW000006	0.0494	25.1399
124	EMPTY	0.0009	4.2253
125	EMPTY	0.0001	0.6849
126	EMPTY	0.0005	2.9586
127	EMPTY	0.0004	2.4540
128	IHT000001	0.0040	7.6336
129	IHT000002	0.0010	4.0816
130	IHT000003	0.0160	70.4846
131	IHT000004	0.0197	43.2967
132	IHT000005	0.0093	387.4999
133	IHT000006	0.0087	8.1006
134	IHT000007	0.0259	76.6272
135	IHT000008	0.0183	55.1205
136	IHT000009	0.0312	95.7055
137	IHT000010	0.0002	0.3534
138	IHT000011	0.0038	115.1515
139	IHT000012	0.0070	73.6842
140	IHT000013	0.0042	5.9072
141	IHT000014	0.0197	27.5140
142	IHT000015	0.0047	15.0641
143	IHT000016	0.0041	13.7124
144	IHT000017	0.0087	9.4875
145	IHT000018	0.0094	17.0599
146	IHT000019	0.0086	9.8398
147	IHT000020	0.0306	1274.9999
148	IHT000021	0.0033	6.4202
149	IHT000022	0.0136	14.6080
150	IHT000023	0.0064	16.6234
151	IHT000024	0.0221	83.0827
152	IHT000025	0.0079	14.0569
153	IHT000026	0.0122	21.9031
154	IHT000027	0.0117	25.6017
155	IHT000028	0.0074	13.8060

Test: May01_02 dif Date: Tue May 1 11:33:27 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0003	9.3750
157	IHT000030	0.0101	14.1259
158	IHT000031	0.0103	19.3609
159	IHT000032	0.0001	0.6579
160	IHT000033	0.0078	100.0000
161	IHT000034	0.0254	57.7273
162	IHT000035	0.0183	41.1236
163	IHT000036	0.0202	172.6496

Test: May01_03

sum1

Date: Tue May 1 11:37:11 1990

Page: 1

Velocity 1 = 24.0109 (ft/sec) (+/- 1.6952 %)

Velocity 2 = 13.6794 (ft/sec) (+/- 1.7009 %)

Pressure drop = 16.2212 (psi)

Tsats in = 277.8923 (deg F) Tsats out = 254.3030 (deg F)

Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4393.4082 %)

Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3048.8767 %)

D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)

L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5008	1.4747e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.6504	1.4184e-01	1.9000e+00
2	TFM000001	87.3583	87.9883	87.6942	1.8455e-01	1.9002e+00
3	TIN000001	87.0932	87.6194	87.3332	1.6312e-01	1.9002e+00
4	TRV000001	87.2907	88.1271	87.6794	2.1125e-01	1.9002e+00
5	TSR000001	86.7966	87.6343	87.2200	1.7691e-01	1.9002e+00
6	TAO020136	87.5781	88.3135	88.0149	2.1259e-01	1.9002e+00
7	TAO050136	87.5385	88.1670	87.8657	1.5340e-01	1.9002e+00
8	TAO070136	85.1465	86.0946	85.6523	1.8188e-01	1.9002e+00
9	TAO080136	87.4301	87.9539	87.6734	1.3770e-01	1.9002e+00
10	TAO090136	87.5109	88.2449	87.8928	1.8178e-01	1.9002e+00
11	TAO100136	87.4805	88.0052	87.7158	1.2630e-01	1.9002e+00
12	TAO105136	87.8706	88.8159	88.3367	2.4016e-01	1.9002e+00
13	TAO110136	85.0668	85.9049	85.4611	1.7262e-01	1.9002e+00
14	TAO115136	87.3271	88.3785	87.9749	2.4348e-01	1.9002e+00
15	TAO120136	87.2543	87.9848	87.5965	1.5247e-01	1.9002e+00
16	TAO125136	87.5528	88.1822	87.8594	1.4185e-01	1.9002e+00
17	TAO130136	87.2732	87.8997	87.5500	1.4571e-01	1.9002e+00
18	TAO120048	87.3973	88.1315	87.7201	1.6392e-01	1.9002e+00
19	TAO130048	87.1165	87.7455	87.4314	1.4203e-01	1.9002e+00
20	TAO120224	87.1132	87.9527	87.5499	1.8882e-01	1.9002e+00
21	TAO130224	87.2172	87.9483	87.5975	1.4609e-01	1.9002e+00
22	TAO120312	87.1448	87.9850	87.5270	2.0643e-01	1.9002e+00
23	TAO130312	87.1806	87.7058	87.4326	1.5713e-01	1.9002e+00
24	TRT020000	87.5531	88.4989	87.9735	1.8881e-01	1.9002e+00
25	TRT070000	87.5227	88.0509	87.8348	1.6202e-01	1.9002e+00
26	TRT100000	87.7693	88.5027	88.0967	1.7783e-01	1.9002e+00
27	TRT120000	87.4726	88.1026	87.8587	1.6607e-01	1.9002e+00
28	TRT125000	87.5384	88.2702	87.8440	1.8143e-01	1.9002e+00
29	TRT130000	87.2407	87.9742	87.6349	1.6340e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6470	1.9506e-01	1.9011e+00
31	TAF050136	87.6476	88.2772	88.0000	1.7163e-01	1.9002e+00
32	TAF070136	87.9594	88.6912	88.4066	1.8051e-01	1.9002e+00
33	TAF080136	87.4805	88.3147	87.8306	1.7370e-01	1.9002e+00
34	TAF090136	84.7847	85.8350	85.3605	2.6511e-01	1.9002e+00
35	TAF100136	87.3493	88.0849	87.6980	1.8433e-01	1.9002e+00
36	TAF105136	87.3660	88.3031	87.8531	2.2127e-01	1.9002e+00
37	TAF110136	87.2111	87.9446	87.5342	1.7942e-01	1.9002e+00
38	TAF115136	87.8522	88.5860	88.1419	2.1012e-01	1.9002e+00
39	TAF120136	87.5657	87.9863	87.8094	1.1508e-01	1.9002e+00
40	TAF125136	87.4332	88.4784	88.0019	2.5649e-01	1.9002e+00
41	TAF130136	87.4450	88.1789	87.8185	1.8116e-01	1.9002e+00
42	TAF120048	87.7162	88.5598	88.1880	2.2558e-01	1.9002e+00
43	TAF130048	87.3752	88.1100	87.7572	1.7949e-01	1.9002e+00
44	TAF120224	87.3444	88.1847	87.8400	1.9326e-01	1.9002e+00
45	TAF130224	86.9344	87.6721	87.3176	1.7901e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	2.1593e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1510	3.2475e-02	1.9010e+00
48	TAI130138	87.2400	88.4991	87.9622	3.0319e-01	1.9002e+00
49	TAI130226	86.8773	87.8199	87.3593	2.2982e-01	1.9002e+00
50	TAI130314	87.4935	88.6495	88.0188	2.9872e-01	1.9002e+00
51	TAI130042	86.9727	87.7079	87.4219	2.0893e-01	1.9002e+00
52	TRR130090	86.6467	87.5904	87.2125	2.1383e-01	1.9002e+00
53	TSI000001	81.0633	81.8005	81.4803	1.7154e-01	1.9001e+00
54	TSI000002	76.3208	77.2722	76.7821	2.8217e-01	1.9000e+00
55	TSO000001	75.5251	76.2686	75.9033	1.8740e-01	1.9000e+00
56	TSO000002	81.8907	82.7333	82.3877	1.8065e-01	1.9001e+00
57	TAF020136	86.8728	87.6103	87.1723	1.5545e-01	1.9002e+00
58	TAF120312	87.2641	88.1027	87.7001	2.1421e-01	1.9002e+00
59	TAF130312	86.7364	87.4703	87.1219	1.7267e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4955	2.4642e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5110	2.3365e-03	0.0000e+00
62	EMPTY	0.5176	0.5273	0.5233	2.1364e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5393	2.4484e-03	0.0000e+00
64	EMPTY	0.3418	0.3516	0.3455	2.3261e-03	0.0000e+00
65	EMPTY	0.3613	0.3711	0.3657	1.7784e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3999	1.4797e-03	0.0000e+00
68	EMPTY	0.4102	0.4199	0.4138	2.3778e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4306	1.8950e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4479	2.1635e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4708	2.4344e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4841	1.7115e-03	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5032	1.5314e-03	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5198	2.4583e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5372	6.9053e-04	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5952	1.4797e-03	0.0000e+00
79	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
80	PAN020136	56.0924	59.3730	57.7022	8.0687e-01	8.8188e-01
81	PAN050136	100.7392	104.7065	103.1043	8.0639e-01	1.6997e+00
82	PAN070136	71.4745	74.1448	72.6983	6.3195e-01	8.8878e-01
83	PAN080136	35.6617	36.9587	36.2598	3.2161e-01	8.7471e-01
84	PAN090136	32.0833	33.1514	32.6417	2.2466e-01	8.7382e-01
85	PAN100136	36.4613	37.6820	37.0060	2.2654e-01	8.7491e-01
86	PAN105136	17.4252	18.1119	17.7518	1.4868e-01	8.7113e-01
87	PAN110136	18.2864	18.7442	18.5031	1.1975e-01	8.7123e-01
88	PAN115136	17.4603	17.9944	17.6679	1.2335e-01	8.7112e-01
89	PAN120136	15.1863	15.6441	15.4274	1.2172e-01	8.7085e-01
90	PAN125136	17.5074	18.1177	17.8064	1.3334e-01	8.7114e-01
91	PAN130136	17.6717	18.2821	18.0105	1.3627e-01	8.7116e-01
92	PAN120048	30.6190	31.7634	31.1195	2.2609e-01	8.7347e-01
93	PAN130048	37.1655	38.5388	37.8980	2.6249e-01	8.7514e-01
94	PAN120224	35.4313	36.3469	35.8875	2.2940e-01	8.7461e-01
95	PAN130224	39.6671	40.8878	40.3126	2.2612e-01	8.7582e-01
96	PAN120312	32.2080	33.1998	32.8427	2.3092e-01	8.7387e-01
97	PAN130312	37.1495	37.9888	37.5234	1.9390e-01	8.7504e-01
98	PAB000136	47.2566	48.1263	47.6145	1.8742e-01	5.9209e-01
99	PAB100136	35.1100	35.3847	35.2272	6.0049e-02	5.8665e-01
100	PAB125136	32.0016	32.1389	32.0528	4.4004e-02	5.8551e-01

Test: May01_03

sum1

Date: Tue May 1 11:37:11 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	46.8671	47.9658	47.3261	2.6281e-01	7.5928e-01
102	PRV000001	26.7021	26.8241	26.7997	4.9324e-02	7.5299e-01
103	PSR000001	29.0989	29.3430	29.2405	5.1496e-02	7.5355e-01
104	PFM000001	87.6900	90.2534	88.8618	5.7933e-01	5.4713e-01
105	PAN000136	443.4240	454.4103	449.0911	2.9185e+00	5.0465e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4482	-9.8027	1.4335e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0042	1.7115e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0216	6.4113e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0334	8.2864e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	-0.0292	6.4113e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0947	1.1161e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0243	1.2359e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0028	1.0168e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.8499	1.1459e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.3120	1.1567e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.4049	1.1982e+00	8.1000e+00
121	IPW000004	-0.9015	0.5634	-0.1398	2.9856e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.1434	2.4181e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.1672	3.4527e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.2253e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0146	-0.0173	2.4583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0142	3.3087e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0485	7.8523e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0206	8.4262e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0383	7.1136e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	9.5357e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0219	1.0507e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0996	9.3043e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0533	9.6655e-02	4.1000e+00
135	IHT000008	-0.2442	0.1465	0.0215	1.0259e-01	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0209	8.1729e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0606	7.2866e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0111	4.8166e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0290	8.8321e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0789	6.8345e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0677	9.2456e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0351	7.5798e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0065	6.8459e-02	4.1000e+00
144	IHT000017	-0.2479	0.3380	-0.0565	1.9527e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0278	9.6655e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0913	9.1354e-02	4.1000e+00
147	IHT000020	-0.2554	0.3305	-0.0406	9.0412e-02	4.1000e+00
148	IHT000021	-0.0826	0.3080	-0.0553	7.9017e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.1009	1.0559e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0541	9.0412e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0305	1.0559e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0679	7.8523e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0596	6.1257e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0496	5.9189e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0419	1.1049e-01	4.1000e+00

Test: May01_03

sum1

Date: Tue May 1 11:37:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0085	7.9017e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0832	1.0507e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0336	1.0617e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0074	6.2265e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	6.8345e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0479	1.0358e-01	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0210	1.1334e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0156	8.6810e-02	4.1000e+00

Velocity 1 = 24.0049 (ft/sec) (+/- 1.6952 %)
Velocity 2 = 13.6794 (ft/sec) (+/- 1.7009 %)
Pressure drop = 16.2358 (psi)
Tsats in = 277.8837 (deg F) Tsats out = 254.2811 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 6462.7837 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4679.6279 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.4850	1.7380e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.6720	1.5121e-01	1.9000e+00
2	TFM000001	87.2542	88.0923	87.7117	1.8977e-01	1.9002e+00
3	TIN000001	87.0932	87.6189	87.3595	1.5629e-01	1.9002e+00
4	TRV000001	87.2895	88.1271	87.7065	1.6049e-01	1.9002e+00
5	TSR000001	87.0054	87.5296	87.2478	1.3898e-01	1.9002e+00
6	TAO020136	87.4728	88.5230	88.0237	2.4684e-01	1.9002e+00
7	TAO050136	87.5385	88.1670	87.8872	1.4717e-01	1.9002e+00
8	TAO070136	85.2520	86.0957	85.7185	2.2765e-01	1.9002e+00
9	TAO080136	87.3254	87.9539	87.6953	1.6979e-01	1.9002e+00
10	TAO090136	87.4062	88.4541	87.9347	2.1810e-01	1.9002e+00
11	TAO100136	87.4805	88.0058	87.7548	1.5564e-01	1.9002e+00
12	TAO105136	87.8701	88.8153	88.3505	2.0109e-01	1.9002e+00
13	TAO110136	85.0668	85.7989	85.4754	1.8180e-01	1.9002e+00
14	TAO115136	87.4318	88.2738	87.9130	2.3122e-01	1.9002e+00
15	TAO120136	87.1489	87.8801	87.5865	1.6777e-01	1.9002e+00
16	TAO125136	87.4481	88.1822	87.8591	1.7368e-01	1.9002e+00
17	TAO130136	87.2732	87.9003	87.5577	1.4471e-01	1.9002e+00
18	TAO120048	87.2920	87.9221	87.6753	1.6805e-01	1.9002e+00
19	TAO130048	87.1165	87.7460	87.4952	1.6126e-01	1.9002e+00
20	TAO120224	87.2180	87.8480	87.5823	1.5617e-01	1.9002e+00
21	TAO130224	87.4252	87.9489	87.6264	1.4154e-01	1.9002e+00
22	TAO120312	87.1446	87.9844	87.5840	1.7631e-01	1.9002e+00
23	TAO130312	87.0758	87.7052	87.4591	1.7066e-01	1.9002e+00
24	TRT020000	87.5526	88.4989	88.0164	2.4648e-01	1.9002e+00
25	TRT070000	87.5227	88.1556	87.8325	1.6971e-01	1.9002e+00
26	TRT100000	87.6648	88.3984	88.0755	2.0264e-01	1.9002e+00
27	TRT120000	87.4726	88.1020	87.8516	1.6138e-01	1.9002e+00
28	TRT125000	87.5384	88.1655	87.8927	1.5811e-01	1.9002e+00
29	TRT130000	87.3451	87.9747	87.6471	1.5381e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5916	2.2671e-01	1.9011e+00
31	TAF050136	87.7523	88.2772	88.0178	1.5883e-01	1.9002e+00
32	TAF070136	87.8542	88.7951	88.4071	2.2178e-01	1.9002e+00
33	TAF080136	87.4786	88.1072	87.8356	1.7599e-01	1.9002e+00
34	TAF090136	84.9946	85.9399	85.4535	2.6997e-01	1.9002e+00
35	TAF100136	87.3488	88.0844	87.7179	1.7445e-01	1.9002e+00
36	TAF105136	87.3660	88.4077	87.8354	2.6245e-01	1.9002e+00
37	TAF110136	87.1063	87.8399	87.5492	1.5319e-01	1.9002e+00
38	TAF115136	87.6428	88.5866	88.1862	2.3011e-01	1.9002e+00
39	TAF120136	87.5657	87.9863	87.8207	1.2499e-01	1.9002e+00
40	TAF125136	87.5380	88.5813	88.0367	2.6694e-01	1.9002e+00
41	TAF130136	87.5497	88.1789	87.8240	1.6691e-01	1.9002e+00
42	TAF120048	87.6102	88.5585	88.1825	2.0405e-01	1.9002e+00
43	TAF130048	87.4800	88.1095	87.7992	1.6856e-01	1.9002e+00
44	TAF120224	87.3444	88.3939	87.8393	2.1852e-01	1.9002e+00
45	TAF130224	87.0392	87.7774	87.3232	1.9963e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1100	1.7637e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1605	1.4379e-01	1.9010e+00
48	TAI130138	87.3453	88.7094	88.0474	3.2911e-01	1.9002e+00
49	TAI130226	86.9816	87.8199	87.3861	1.8143e-01	1.9002e+00
50	TAI130314	87.4930	88.6489	88.1110	2.8751e-01	1.9002e+00
51	TAI130042	87.0773	87.9172	87.4739	1.8092e-01	1.9002e+00
52	TRR130090	86.6461	87.7992	87.2667	2.3998e-01	1.9002e+00
53	TSI000001	81.1680	81.8011	81.5317	1.5674e-01	1.9001e+00
54	TSI000002	76.3221	77.2722	76.8453	2.6412e-01	1.9000e+00
55	TSO000001	75.4188	76.2686	75.8719	1.6634e-01	1.9000e+00
56	TSO000002	81.7849	82.8390	82.3677	2.4435e-01	1.9001e+00
57	TAF020136	86.8728	87.6109	87.1955	1.9034e-01	1.9002e+00
58	TAF120312	87.0539	88.1022	87.5850	2.7269e-01	1.9002e+00
59	TAF130312	86.7364	87.4698	87.1211	1.7046e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4948	2.3135e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5102	2.4662e-03	0.0000e+00
62	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5386	2.2737e-03	0.0000e+00
64	EMPTY	0.3369	0.3467	0.3442	2.6600e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3654	1.8234e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3808	6.9754e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.4002	9.7615e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4138	2.1215e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4302	1.4934e-03	0.0000e+00
70	EMPTY	0.4443	0.4541	0.4476	2.5191e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4707	2.4247e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4839	1.4934e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
74	EMPTY	0.5176	0.5273	0.5202	2.6562e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5714	6.9754e-04	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5953	1.3508e-03	0.0000e+00
79	EMPTY	0.6104	0.6201	0.6152	9.9670e-04	0.0000e+00
80	PAN020136	57.0842	59.9071	58.2162	7.2836e-01	8.8209e-01
81	PAN050136	101.8074	105.1643	103.4235	7.4487e-01	1.6998e+00
82	PAN070136	71.5508	74.0685	72.7419	6.5941e-01	8.8880e-01
83	PAN080136	35.5091	36.9587	36.1957	3.0952e-01	8.7469e-01
84	PAN090136	32.2358	32.9988	32.6376	2.1397e-01	8.7382e-01
85	PAN100136	36.6902	37.5294	37.0857	1.8471e-01	8.7493e-01
86	PAN105136	17.4252	18.0356	17.7522	1.4526e-01	8.7113e-01
87	PAN110136	18.2102	18.7442	18.5340	1.4487e-01	8.7123e-01
88	PAN115136	17.4603	17.9944	17.7001	1.2936e-01	8.7112e-01
89	PAN120136	15.1863	15.6441	15.4261	1.1962e-01	8.7085e-01
90	PAN125136	17.5074	18.0414	17.8281	1.1756e-01	8.7114e-01
91	PAN130136	17.7480	18.2821	18.0096	1.1550e-01	8.7116e-01
92	PAN120048	30.7716	31.4582	31.1437	1.9366e-01	8.7348e-01
93	PAN130048	37.4707	38.4625	37.9658	2.3778e-01	8.7516e-01
94	PAN120224	35.4313	36.2706	35.9187	2.0767e-01	8.7462e-01
95	PAN130224	39.8197	40.6590	40.3008	2.0017e-01	8.7581e-01
96	PAN120312	32.4368	33.3524	32.8246	1.9441e-01	8.7386e-01
97	PAN130312	37.1495	37.9888	37.5637	2.0065e-01	8.7505e-01
98	PAB000136	47.1650	47.9890	47.6078	1.8533e-01	5.9209e-01
99	PAB100136	35.0642	35.3389	35.2156	5.8506e-02	5.8664e-01
100	PAB125136	31.9558	32.1389	32.0408	4.3828e-02	5.8551e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	46.8671	47.8437	47.3056	2.4276e-01	7.5927e-01
102	PRV000001	26.7021	26.8241	26.8117	3.7334e-02	7.5299e-01
103	PSR000001	29.2209	29.3430	29.2309	3.3770e-02	7.5355e-01
104	PFM000001	88.0562	89.7041	88.8166	4.1545e-01	5.4709e-01
105	PAN000136	442.9662	454.4103	449.4963	2.7951e+00	5.0467e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7263e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1943	-9.7945	1.7596e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1827e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0012	8.2338e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0371	6.8582e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0167	8.6187e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0971	1.1838e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0353	1.0533e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0064	1.2122e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.7033	1.1640e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.5374	1.2124e+00	8.1000e+00
120	IPW000003	-4.4999	1.3501	-0.4407	1.3103e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.0844	2.3135e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.0950	2.4328e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.2359	3.2995e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0208	3.6993e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.5231e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0163	3.2375e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.6883e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	8.4477e-02	4.1000e+00
129	IHT000002	-0.2216	0.3643	0.0215	1.1644e-01	4.1000e+00
130	IHT000003	-0.1765	0.4094	0.0307	9.2715e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0298	7.4477e-02	4.1000e+00
132	IHT000005	-0.2554	0.1352	0.0156	1.0409e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0827	9.2540e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0478	9.7656e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0229	9.5132e-02	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0359	6.9053e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0488	7.9736e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0230	5.5804e-02	4.1000e+00
139	IHT000012	-0.2517	0.3343	-0.0045	1.1810e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0669	7.3601e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0479	8.7680e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0279	7.9736e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0258	5.5804e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0845	1.6119e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0485	9.9303e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0720	6.1868e-02	4.1000e+00
147	IHT000020	-0.0601	0.5258	0.0037	1.1546e-01	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0547	6.9053e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1027	9.8153e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0449	9.3931e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0407	9.6150e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0601	8.9148e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0435	6.9053e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0659	8.6187e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0303	1.0156e-01	4.1000e+00

Test: May01_03

sum2

Date: Tue May 1 11:37:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0051	6.4688e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0577	1.0594e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0156	1.1838e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0153	8.4477e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0040	7.4477e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0415	9.3931e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0183	8.9148e-02	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0319	7.2937e-02	4.1000e+00

Test: May01_03 dif Date: Tue May 1 11:37:11 1990 Page: 1

Velocity 1 = 0.006001 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.014599 (psi)

Tsat in = 0.008606 (deg F) Tsat out = 0.021896 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0158	0.0212
1	TRF000002	0.0216	0.0289
2	TFM000001	0.0175	0.0200
3	TIN000001	0.0263	0.0301
4	TRV000001	0.0271	0.0309
5	TSR000001	0.0278	0.0319
6	TAO020136	0.0088	0.0100
7	TAO050136	0.0215	0.0245
8	TAO070136	0.0662	0.0773
9	TAO080136	0.0219	0.0250
10	TAO090136	0.0419	0.0477
11	TAO100136	0.0390	0.0445
12	TAO105136	0.0138	0.0156
13	TAO110136	0.0143	0.0167
14	TAO115136	0.0619	0.0704
15	TAO120136	0.0100	0.0114
16	TAO125136	0.0003	0.0003
17	TAO130136	0.0077	0.0088
18	TAO120048	0.0448	0.0511
19	TAO130048	0.0638	0.0730
20	TAO120224	0.0324	0.0370
21	TAO130224	0.0289	0.0330
22	TAO120312	0.0570	0.0651
23	TAO130312	0.0265	0.0303
24	TRT020000	0.0429	0.0488
25	TRT070000	0.0023	0.0026
26	TRT100000	0.0212	0.0241
27	TRT120000	0.0071	0.0081
28	TRT125000	0.0487	0.0554
29	TRT130000	0.0122	0.0139
30	EMPTY	0.0554	0.1397
31	TAF050136	0.0178	0.0202
32	TAF070136	0.0005	0.0006
33	TAF080136	0.0050	0.0057
34	TAF090136	0.0930	0.1090
35	TAF100136	0.0199	0.0227
36	TAF105136	0.0177	0.0201
37	TAF110136	0.0150	0.0171
38	TAF115136	0.0443	0.0503
39	TAF120136	0.0113	0.0129
40	TAF125136	0.0348	0.0395
41	TAF130136	0.0055	0.0063
42	TAF120048	0.0055	0.0062
43	TAF130048	0.0420	0.0479
44	TAF120224	0.0007	0.0008
45	TAF130224	0.0056	0.0064

#	Name	Abs Diff	%Diff
46	EMPTY	0.0344	0.0903
47	EMPTY	0.0095	0.0243
48	TAI130138	0.0852	0.0969
49	TAI130226	0.0268	0.0307
50	TAI130314	0.0922	0.1048
51	TAI130042	0.0520	0.0595
52	TRR130090	0.0542	0.0621
53	TSI000001	0.0514	0.0631
54	TSI000002	0.0632	0.0823
55	TSO000001	0.0314	0.0414
56	TSO000002	0.0200	0.0243
57	TAF020136	0.0232	0.0266
58	TAF120312	0.1151	0.1312
59	TAF130312	0.0008	0.0009
60	EMPTY	0.0007	0.1413
61	EMPTY	0.0008	0.1565
62	EMPTY	0.0008	0.1529
63	EMPTY	0.0007	0.1298
64	EMPTY	0.0013	0.3763
65	EMPTY	0.0003	0.0820
66	EMPTY	0.0001	0.0263
67	EMPTY	0.0003	0.0750
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0004	0.0929
70	EMPTY	0.0003	0.0670
71	EMPTY	0.0001	0.0212
72	EMPTY	0.0002	0.0413
73	EMPTY	0.0002	0.0397
74	EMPTY	0.0004	0.0770
75	EMPTY	0.0001	0.0186
76	EMPTY	0.0001	0.0181
77	EMPTY	0.0001	0.0175
78	EMPTY	0.0001	0.0168
79	EMPTY	0.0000	0.0000
80	PAN020136	0.5140	0.8908
81	PAN050136	0.3192	0.3096
82	PAN070136	0.0436	0.0600
83	PAN080136	0.0641	0.1768
84	PAN090136	0.0041	0.0126
85	PAN100136	0.0797	0.2154
86	PAN105136	0.0004	0.0022
87	PAN110136	0.0309	0.1670
88	PAN115136	0.0322	0.1823
89	PAN120136	0.0013	0.0084
90	PAN125136	0.0217	0.1219
91	PAN130136	0.0009	0.0050
92	PAN120048	0.0242	0.0778
93	PAN130048	0.0678	0.1789
94	PAN120224	0.0312	0.0869
95	PAN130224	0.0118	0.0293
96	PAN120312	0.0181	0.0551
97	PAN130312	0.0403	0.1074
98	PAB000136	0.0067	0.0141
99	PAB100136	0.0116	0.0329
100	PAB125136	0.0120	0.0374

Test: May01_03

dif

Date: Tue May 1 11:37:11 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0205	0.0433
102	PRV000001	0.0120	0.0448
103	PSR000001	0.0096	0.0328
104	PFM000001	0.0452	0.0509
105	PAN000136	0.4052	0.0902
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	4.2105
108	EMPTY	0.0082	0.0836
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	9.5238
112	VPW000001	0.0204	94.4445
113	VPW000002	0.0037	11.0778
114	VPW000003	0.0125	42.8082
115	VPW000004	0.0024	2.5343
116	VPW000005	0.0110	45.2675
117	VPW000006	0.0036	128.5714
118	IPW000001	0.1466	17.2491
119	IPW000002	0.2254	72.2436
120	IPW000003	0.0358	8.8417
121	IPW000004	0.0554	39.6280
122	IPW000005	0.0484	33.7517
123	IPW000006	0.0687	41.0885
124	EMPTY	0.0007	3.2558
125	EMPTY	0.0005	3.6232
126	EMPTY	0.0010	5.7803
127	EMPTY	0.0022	15.4930
128	IHT000001	0.0039	8.0412
129	IHT000002	0.0009	4.3689
130	IHT000003	0.0076	19.8433
131	IHT000004	0.0116	63.7363
132	IHT000005	0.0063	28.7671
133	IHT000006	0.0169	16.9679
134	IHT000007	0.0055	10.3189
135	IHT000008	0.0014	6.5116
136	IHT000009	0.0150	71.7703
137	IHT000010	0.0118	19.4720
138	IHT000011	0.0119	107.2072
139	IHT000012	0.0245	84.4828
140	IHT000013	0.0120	15.2091
141	IHT000014	0.0198	29.2467
142	IHT000015	0.0072	20.5128
143	IHT000016	0.0193	296.9231
144	IHT000017	0.0280	49.5575
145	IHT000018	0.0207	74.4604
146	IHT000019	0.0193	21.1391
147	IHT000020	0.0443	109.1133
148	IHT000021	0.0006	1.0850
149	IHT000022	0.0018	1.7839
150	IHT000023	0.0092	17.0055
151	IHT000024	0.0102	33.4426
152	IHT000025	0.0078	11.4875
153	IHT000026	0.0161	27.0134
154	IHT000027	0.0163	32.8629
155	IHT000028	0.0116	27.6850

Test: May01_03 dif Date: Tue May 1 11:37:11 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0034	40.0000
157	IHT000030	0.0255	30.6490
158	IHT000031	0.0180	53.5714
159	IHT000032	0.0079	106.7567
160	IHT000033	0.0040	100.0000
161	IHT000034	0.0064	13.3612
162	IHT000035	0.0027	12.8571
163	IHT000036	0.0163	104.4872

Test: May01_04

sum1

Date: Tue May 1 11:42:05 1990

Page: 1

Velocity 1 = 22.0016 (ft/sec) (+/- 1.7050 %)
Velocity 2 = 13.6803 (ft/sec) (+/- 1.7009 %)
Pressure drop = 13.0436 (psi)
Tsat in = 273.0769 (deg F) Tsat out = 253.2821 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 43664.2500 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5125.4517 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5732	1.7334e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.6928	1.0475e-01	1.9000e+00
2	TFM000001	88.0917	88.8247	88.4793	1.6816e-01	1.9002e+00
3	TIN000001	87.8292	88.2499	88.0877	1.1271e-01	1.9002e+00
4	TRV000001	87.8118	88.7536	88.4249	2.2252e-01	1.9002e+00
5	TSR000001	87.5276	88.1568	87.8903	1.5288e-01	1.9002e+00
6	TAO020136	88.2078	89.2579	88.7772	2.6414e-01	1.9002e+00
7	TAO050136	88.1655	88.8974	88.5769	1.5442e-01	1.9002e+00
8	TAO070136	85.7794	86.6222	86.2785	1.8036e-01	1.9002e+00
9	TAO080136	88.0561	88.6842	88.4012	1.4526e-01	1.9002e+00
10	TAO090136	88.1402	88.9777	88.6275	1.8520e-01	1.9002e+00
11	TAO100136	88.1088	88.7385	88.4175	1.5485e-01	1.9002e+00
12	TAO105136	88.6055	89.3404	89.0234	1.9147e-01	1.9002e+00
13	TAO110136	85.7969	86.4263	86.0971	1.5967e-01	1.9002e+00
14	TAO115136	88.2737	89.1147	88.6755	2.0666e-01	1.9002e+00
15	TAO120136	88.0852	88.6081	88.2892	1.1862e-01	1.9002e+00
16	TAO125136	88.2856	88.9151	88.5608	1.6110e-01	1.9002e+00
17	TAO130136	87.9973	88.6241	88.2302	1.2710e-01	1.9002e+00
18	TAO120048	88.0257	88.7596	88.4093	1.5658e-01	1.9002e+00
19	TAO130048	87.8477	88.4769	88.1603	1.5181e-01	1.9002e+00
20	TAO120224	87.9518	88.6866	88.2816	1.7351e-01	1.9002e+00
21	TAO130224	88.0487	88.6769	88.3026	1.4184e-01	1.9002e+00
22	TAO120312	87.9843	88.6142	88.2761	1.4418e-01	1.9002e+00
23	TAO130312	87.9135	88.4378	88.1754	1.2935e-01	1.9002e+00
24	TRT020000	88.3941	89.1296	88.7116	1.9168e-01	1.9002e+00
25	TRT070000	88.1562	88.7887	88.5460	1.2623e-01	1.9002e+00
26	TRT100000	88.2928	89.2344	88.7806	2.0785e-01	1.9002e+00
27	TRT120000	88.2056	88.8353	88.5394	1.6775e-01	1.9002e+00
28	TRT125000	88.1638	88.9999	88.5838	1.8330e-01	1.9002e+00
29	TRT130000	88.0769	88.7062	88.3353	1.5003e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.2857e-01	1.9011e+00
31	TAF050136	88.3795	88.9041	88.7047	1.3918e-01	1.9002e+00
32	TAF070136	88.7932	89.5256	89.0763	1.8544e-01	1.9002e+00
33	TAF080136	88.2075	88.8358	88.5155	1.5131e-01	1.9002e+00
34	TAF090136	85.4143	86.3598	85.9837	2.4463e-01	1.9002e+00
35	TAF100136	88.0839	88.8196	88.3975	1.6909e-01	1.9002e+00
36	TAF105136	88.0952	89.0317	88.5044	2.0778e-01	1.9002e+00
37	TAF110136	87.9437	88.7810	88.2682	1.6016e-01	1.9002e+00
38	TAF115136	88.4808	89.4234	88.8516	1.9417e-01	1.9002e+00
39	TAF120136	88.2972	88.7175	88.5012	1.1107e-01	1.9002e+00
40	TAF125136	88.0592	89.3106	88.7038	2.6204e-01	1.9002e+00
41	TAF130136	88.1782	88.8072	88.5365	1.4529e-01	1.9002e+00
42	TAF120048	88.4551	89.4028	88.9414	2.2113e-01	1.9002e+00
43	TAF130048	88.1084	88.7382	88.4842	1.3911e-01	1.9002e+00
44	TAF120224	88.0787	88.9185	88.5974	1.4599e-01	1.9002e+00
45	TAF130224	87.6731	88.4103	88.0539	1.6472e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.1230e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1602	5.5089e-02	1.9010e+00
48	TAI130138	88.1840	89.3381	88.6648	2.8511e-01	1.9002e+00
49	TAI130226	87.5046	88.4472	88.0765	2.2198e-01	1.9002e+00
50	TAI130314	88.2289	89.2791	88.7815	2.8923e-01	1.9002e+00
51	TAI130042	87.6025	88.4420	88.1250	1.9373e-01	1.9002e+00
52	TRR130090	87.3798	88.2183	87.8931	2.1293e-01	1.9002e+00
53	TSI000001	81.6946	82.2217	81.9833	1.4715e-01	1.9001e+00
54	TSI000002	76.5327	77.5894	77.2277	2.6048e-01	1.9000e+00
55	TSO000001	75.7375	76.4813	76.0798	1.7482e-01	1.9000e+00
56	TSO000002	82.1007	82.9441	82.5542	1.8950e-01	1.9001e+00
57	TAF020136	87.5060	88.2438	87.9338	1.7480e-01	1.9002e+00
58	TAF120312	87.8928	88.7315	88.3518	2.3376e-01	1.9002e+00
59	TAF130312	87.5728	88.2024	87.8647	1.5313e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5116	2.0432e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5262	2.1065e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5379	1.8082e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5541	2.4642e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3513	1.1714e-03	0.0000e+00
65	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
67	EMPTY	0.4004	0.4102	0.4054	1.2041e-03	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4371	2.4642e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4775	1.9730e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4901	2.3941e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5092	2.2146e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5265	1.8950e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5422	9.6655e-04	0.0000e+00
76	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
78	EMPTY	0.5957	0.6006	0.6005	6.9053e-04	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6244	1.6028e-03	0.0000e+00
80	PAN020136	45.1824	48.0815	46.4275	6.1296e-01	8.7771e-01
81	PAN050136	80.5976	83.9546	82.8895	6.6296e-01	1.6927e+00
82	PAN070136	56.7498	59.8016	58.4344	6.2570e-01	8.8218e-01
83	PAN080136	28.4900	29.4818	28.9554	2.4529e-01	8.7301e-01
84	PAN090136	25.7509	26.5138	26.1537	1.7373e-01	8.7245e-01
85	PAN100136	29.4423	30.1289	29.8573	1.7920e-01	8.7320e-01
86	PAN105136	13.9920	14.4498	14.2667	1.0340e-01	8.7073e-01
87	PAN110136	14.7006	15.1584	14.8639	1.0109e-01	8.7079e-01
88	PAN115136	13.9508	14.5612	14.3124	1.1618e-01	8.7074e-01
89	PAN120136	11.9057	12.2871	12.1590	9.9224e-02	8.7053e-01
90	PAN125136	13.9215	14.4556	14.1626	9.9128e-02	8.7072e-01
91	PAN130136	14.3911	14.8488	14.5833	9.4061e-02	8.7076e-01
92	PAN120048	24.6680	25.5073	25.1151	1.5644e-01	8.7226e-01
93	PAN130048	29.9939	30.9857	30.5325	1.8068e-01	8.7334e-01
94	PAN120224	28.5649	29.3278	28.9601	1.6579e-01	8.7301e-01
95	PAN130224	31.8852	32.9533	32.4970	1.7472e-01	8.7379e-01
96	PAN120312	25.9519	26.7911	26.3333	1.8238e-01	8.7249e-01
97	PAN130312	29.9779	30.6645	30.2159	1.5842e-01	8.7327e-01
98	PAB000136	43.6402	44.1895	43.9936	1.1366e-01	5.9034e-01
99	PAB100136	33.9198	34.1487	34.0480	5.9218e-02	5.8621e-01
100	PAB125136	31.4065	31.5896	31.4971	4.2872e-02	5.8532e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	43.5712	44.6699	43.9448	2.1977e-01	7.5800e-01
102	PRV000001	26.7021	26.8241	26.8217	1.7263e-02	7.5299e-01
103	PSR000001	29.0989	29.3430	29.2234	3.0104e-02	7.5355e-01
104	PFM000001	73.7739	75.4219	74.5485	3.8808e-01	5.3360e-01
105	PAN000136	355.9911	368.3507	361.1181	2.4010e+00	5.0021e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0085	2.1635e-03	0.0000e+00
108	EMPTY	-10.0000	-9.3457	-9.8045	1.8801e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0036	2.1635e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0060	8.8233e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0529	8.7880e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0021	9.6976e-02	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0751	1.1334e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0282	1.0106e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0011	1.0447e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.5918	9.8608e-01	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.2730	1.0982e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.6779	1.1115e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2570	2.6908e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.3094	3.1564e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1965	3.2658e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.2851e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0142	3.3087e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.2359e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	2.9594e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0446	1.0741e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0010	9.6735e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0071	8.2864e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0104	9.3710e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0102	9.4702e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1192	9.6735e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0137	9.2034e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0326	8.2393e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0449	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	5.5243e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0212	1.0206e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	8.3612e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0756	1.0741e-01	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0799	2.1253e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0512	1.0763e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0952	1.0206e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	9.9512e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0514	8.2393e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1283	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0619	8.6541e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0422	9.5765e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0679	7.8523e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0457	8.6810e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	1.0741e-01	4.1000e+00

Test: May01_04

sum1

Date: Tue May 1 11:42:05 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	7.1136e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0793	1.1272e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0376	1.1334e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	8.8233e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0039	8.3612e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0518	1.1161e-01	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0367	1.0358e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0313	9.1354e-02	4.1000e+00

Velocity 1 = 22.0287 (ft/sec) (+/- 1.7048 %)
Velocity 2 = 13.6803 (ft/sec) (+/- 1.7009 %)
Pressure drop = 13.0720 (psi)
Tsats in = 273.1432 (deg F) Tsats out = 253.2907 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3406.5334 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4670.4512 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5371	1.8989e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.7066	1.1247e-01	1.9000e+00
2	TFM000001	87.9864	88.9299	88.4892	2.3622e-01	1.9002e+00
3	TIN000001	87.8287	88.4594	88.0972	1.5767e-01	1.9002e+00
4	TRV000001	88.1246	88.8583	88.4182	1.6794e-01	1.9002e+00
5	TSR000001	87.6316	88.1568	87.9124	1.2180e-01	1.9002e+00
6	TAO020136	88.2078	89.1533	88.7394	2.1154e-01	1.9002e+00
7	TAO050136	88.2687	88.8974	88.5809	1.7280e-01	1.9002e+00
8	TAO070136	85.7789	86.8324	86.3295	2.1531e-01	1.9002e+00
9	TAO080136	88.1592	88.6842	88.4357	1.4757e-01	1.9002e+00
10	TAO090136	88.0343	88.9771	88.6267	2.0116e-01	1.9002e+00
11	TAO100136	88.1088	88.7385	88.4258	1.3456e-01	1.9002e+00
12	TAO105136	88.7103	89.5502	89.0618	2.1057e-01	1.9002e+00
13	TAO110136	85.7969	86.4263	86.0711	1.4160e-01	1.9002e+00
14	TAO115136	88.1686	89.1147	88.6300	2.1437e-01	1.9002e+00
15	TAO120136	87.9805	88.6087	88.2995	1.3353e-01	1.9002e+00
16	TAO125136	88.2856	88.9151	88.6111	1.6192e-01	1.9002e+00
17	TAO130136	87.8926	88.5194	88.2578	1.5805e-01	1.9002e+00
18	TAO120048	88.0252	88.8642	88.4576	2.1031e-01	1.9002e+00
19	TAO130048	87.8477	88.4769	88.1516	1.4699e-01	1.9002e+00
20	TAO120224	87.8470	88.6866	88.3054	1.7092e-01	1.9002e+00
21	TAO130224	88.0487	88.6769	88.3394	1.4829e-01	1.9002e+00
22	TAO120312	87.7743	88.6136	88.2605	2.0057e-01	1.9002e+00
23	TAO130312	87.8082	88.5416	88.2020	1.3126e-01	1.9002e+00
24	TRT020000	88.2890	89.0246	88.6773	1.7588e-01	1.9002e+00
25	TRT070000	88.0515	88.9986	88.5345	1.7581e-01	1.9002e+00
26	TRT100000	88.3975	89.2344	88.8309	1.8514e-01	1.9002e+00
27	TRT120000	88.3103	88.8353	88.5482	1.3840e-01	1.9002e+00
28	TRT125000	88.2668	88.9999	88.5858	1.8461e-01	1.9002e+00
29	TRT130000	88.0769	88.7062	88.3681	1.5170e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.6244	2.4722e-01	1.9011e+00
31	TAF050136	88.3795	89.2176	88.7602	1.6798e-01	1.9002e+00
32	TAF070136	88.6886	89.4218	89.1053	2.1274e-01	1.9002e+00
33	TAF080136	88.1028	88.8358	88.5661	1.5543e-01	1.9002e+00
34	TAF090136	85.5192	86.4647	85.9674	2.6389e-01	1.9002e+00
35	TAF100136	87.8745	88.8196	88.4339	2.0157e-01	1.9002e+00
36	TAF105136	88.0926	89.0312	88.5359	2.3259e-01	1.9002e+00
37	TAF110136	87.8390	88.6768	88.2704	1.7464e-01	1.9002e+00
38	TAF115136	88.4802	89.3188	88.9167	2.0547e-01	1.9002e+00
39	TAF120136	88.1925	88.7175	88.4903	1.2563e-01	1.9002e+00
40	TAF125136	88.2679	89.2072	88.7083	2.3549e-01	1.9002e+00
41	TAF130136	88.1777	89.0164	88.5715	1.7587e-01	1.9002e+00
42	TAF120048	88.2434	89.4028	88.9320	2.4539e-01	1.9002e+00
43	TAF130048	88.2132	88.8429	88.4875	1.5995e-01	1.9002e+00
44	TAF120224	88.2885	89.0230	88.6614	1.8930e-01	1.9002e+00
45	TAF130224	87.6726	88.4098	88.1242	1.6237e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0584	2.6037e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1418	5.7221e-02	1.9010e+00
48	TAI130138	88.2892	89.2332	88.7066	2.5093e-01	1.9002e+00
49	TAI130226	87.7136	88.6556	88.1114	2.3006e-01	1.9002e+00
50	TAI130314	88.2284	89.2793	88.7885	2.9587e-01	1.9002e+00
51	TAI130042	87.7072	88.4420	88.1249	2.0270e-01	1.9002e+00
52	TRR130090	87.3791	88.5322	87.9163	2.3874e-01	1.9002e+00
53	TSI000001	81.5888	82.4314	81.9569	1.8143e-01	1.9001e+00
54	TSI000002	76.6376	77.6950	77.1556	2.5616e-01	1.9000e+00
55	TSO000001	75.7375	76.5876	76.1106	1.9300e-01	1.9000e+00
56	TSO000002	82.2061	82.9441	82.5354	1.9788e-01	1.9001e+00
57	TAF020136	87.5060	88.3484	87.9274	2.0734e-01	1.9002e+00
58	TAF120312	87.8922	88.9408	88.3418	2.4852e-01	1.9002e+00
59	TAF130312	87.5728	88.2024	87.8641	1.6615e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5120	1.7263e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5264	1.9103e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5390	2.4037e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5548	2.3783e-03	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3509	2.2287e-03	0.0000e+00
65	EMPTY	0.3662	0.3760	0.3710	1.2165e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3860	1.1827e-03	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4051	9.7615e-04	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4195	1.3508e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4370	2.4662e-03	0.0000e+00
70	EMPTY	0.4492	0.4590	0.4540	1.2165e-03	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4769	2.3135e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4911	2.4414e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5090	2.1215e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5259	2.2287e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5423	1.1827e-03	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5568	9.7615e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5763	6.9754e-04	0.0000e+00
78	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6246	1.3508e-03	0.0000e+00
80	PAN020136	45.4875	48.2341	46.5307	5.9575e-01	8.7774e-01
81	PAN050136	81.0554	85.3279	82.9923	7.5797e-01	1.6928e+00
82	PAN070136	57.1313	59.9541	58.6229	6.7220e-01	8.8226e-01
83	PAN080136	28.5663	29.8633	29.1455	2.4620e-01	8.7305e-01
84	PAN090136	25.8272	26.6664	26.1931	1.9450e-01	8.7246e-01
85	PAN100136	29.6712	30.2815	29.8969	1.7548e-01	8.7320e-01
86	PAN105136	13.9157	14.5261	14.2411	1.5000e-01	8.7073e-01
87	PAN110136	14.6243	15.1584	14.8875	1.1764e-01	8.7080e-01
88	PAN115136	14.0271	14.5612	14.2902	1.1660e-01	8.7073e-01
89	PAN120136	12.0583	12.3634	12.2062	9.1351e-02	8.7054e-01
90	PAN125136	13.9215	14.3793	14.1738	1.1466e-01	8.7072e-01
91	PAN130136	14.3911	14.8488	14.6075	1.0829e-01	8.7077e-01
92	PAN120048	24.7443	25.5836	25.1320	1.8416e-01	8.7227e-01
93	PAN130048	30.2991	30.9857	30.5902	1.5626e-01	8.7335e-01
94	PAN120224	28.6412	29.2515	29.0008	1.5958e-01	8.7302e-01
95	PAN130224	32.1903	32.9533	32.5157	1.9437e-01	8.7379e-01
96	PAN120312	26.0282	26.8674	26.4034	1.6321e-01	8.7250e-01
97	PAN130312	29.8253	30.5882	30.2083	1.6296e-01	8.7327e-01
98	PAB000136	43.7775	44.2353	44.0419	1.0987e-01	5.9036e-01
99	PAB100136	33.9656	34.1487	34.0581	4.6241e-02	5.8622e-01
100	PAB125136	31.4065	31.5896	31.5018	4.3665e-02	5.8532e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	43.5712	44.4257	43.9101	2.0284e-01	7.5799e-01
102	PRV000001	26.8241	26.8241	26.8241	3.8542e-06	7.5299e-01
103	PSR000001	29.2209	29.3430	29.2234	1.7439e-02	7.5355e-01
104	PFM000001	74.0486	75.3303	74.7324	3.1221e-01	5.3377e-01
105	PAN000136	357.8222	368.8085	361.9046	2.3710e+00	5.0025e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0086	2.1215e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1602	-9.7601	2.1385e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0026	2.4621e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0012	8.2338e-02	8.1000e-01
113	VPW000002	-0.2404	-0.0451	-0.0650	5.9734e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0247	9.7656e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.1130	9.9303e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0113	1.0836e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0343	8.8783e-02	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.3408	1.1272e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.2189	1.3099e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	-0.4407	1.3694e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2139	2.4247e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.1947	2.7349e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1562	3.3994e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.8759e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6370e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0176	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0150	3.5710e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	8.4477e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0176	9.9792e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0467	9.7656e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0298	8.4477e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	-0.0003	9.9303e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0907	9.7656e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0637	9.3931e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0349	9.7656e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0559	8.8783e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0528	1.0911e-01	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0009	8.7680e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0085	1.2308e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0669	1.2229e-01	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0798	1.1161e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0239	9.4620e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0139	7.1817e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0845	1.8420e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0485	1.1419e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0920	9.2189e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0163	9.1482e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0308	8.7123e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0868	1.1059e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0569	8.9148e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0447	9.5132e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0760	7.8092e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0514	7.1817e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0619	8.3122e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0502	1.2374e-01	4.1000e+00

Test: May01_04

sum2

Date: Tue May 1 11:42:05 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0011	7.1817e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0856	9.6990e-02	4.1000e+00
158	IHT000031	-0.3305	0.2554	-0.0475	1.2001e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0232	7.3601e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0040	1.0156e-01	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0215	9.3759e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0422	9.6990e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0279	7.9736e-02	4.1000e+00

Test: May01_04 dif Date: Tue May 1 11:42:05 1990 Page: 1

Velocity 1 = 0.027100 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.028399 (psi)

Tsat in = 0.066284 (deg F) Tsat out = 0.008591 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0361	0.0484
1	TRF000002	0.0138	0.0185
2	TFM000001	0.0099	0.0112
3	TIN000001	0.0095	0.0108
4	TRV000001	0.0067	0.0076
5	TSR000001	0.0221	0.0251
6	TAO020136	0.0378	0.0426
7	TAO050136	0.0040	0.0045
8	TAO070136	0.0510	0.0591
9	TAO080136	0.0345	0.0390
10	TAO090136	0.0008	0.0009
11	TAO100136	0.0083	0.0094
12	TAO105136	0.0384	0.0431
13	TAO110136	0.0260	0.0302
14	TAO115136	0.0455	0.0513
15	TAO120136	0.0103	0.0117
16	TAO125136	0.0503	0.0568
17	TAO130136	0.0276	0.0313
18	TAO120048	0.0483	0.0546
19	TAO130048	0.0087	0.0099
20	TAO120224	0.0238	0.0270
21	TAO130224	0.0368	0.0417
22	TAO120312	0.0156	0.0177
23	TAO130312	0.0266	0.0302
24	TRT020000	0.0343	0.0387
25	TRT070000	0.0115	0.0130
26	TRT100000	0.0503	0.0567
27	TRT120000	0.0088	0.0099
28	TRT125000	0.0020	0.0023
29	TRT130000	0.0328	0.0371
30	EMPTY	0.0317	0.0799
31	TAF050136	0.0555	0.0626
32	TAF070136	0.0290	0.0326
33	TAF080136	0.0506	0.0572
34	TAF090136	0.0163	0.0190
35	TAF100136	0.0364	0.0412
36	TAF105136	0.0315	0.0356
37	TAF110136	0.0022	0.0025
38	TAF115136	0.0651	0.0733
39	TAF120136	0.0109	0.0123
40	TAF125136	0.0045	0.0051
41	TAF130136	0.0350	0.0395
42	TAF120048	0.0094	0.0106
43	TAF130048	0.0033	0.0037
44	TAF120224	0.0640	0.0722
45	TAF130224	0.0703	0.0798

#	Name	Abs Diff	%Diff
46	EMPTY	0.0264	0.0693
47	EMPTY	0.0184	0.0470
48	TAI130138	0.0418	0.0471
49	TAI130226	0.0349	0.0396
50	TAI130314	0.0070	0.0079
51	TAI130042	0.0001	0.0001
52	TRR130090	0.0232	0.0264
53	TSI000001	0.0264	0.0322
54	TSI000002	0.0721	0.0934
55	TSO000001	0.0308	0.0405
56	TSO000002	0.0188	0.0228
57	TAF020136	0.0064	0.0073
58	TAF120312	0.0100	0.0113
59	TAF130312	0.0006	0.0007
60	EMPTY	0.0004	0.0782
61	EMPTY	0.0002	0.0380
62	EMPTY	0.0011	0.2045
63	EMPTY	0.0007	0.1263
64	EMPTY	0.0004	0.1139
65	EMPTY	0.0001	0.0270
66	EMPTY	0.0002	0.0518
67	EMPTY	0.0003	0.0740
68	EMPTY	0.0004	0.0953
69	EMPTY	0.0001	0.0229
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0006	0.1257
72	EMPTY	0.0010	0.2040
73	EMPTY	0.0002	0.0393
74	EMPTY	0.0006	0.1140
75	EMPTY	0.0001	0.0184
76	EMPTY	0.0002	0.0359
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0001	0.0167
79	EMPTY	0.0002	0.0320
80	PAN020136	0.1032	0.2223
81	PAN050136	0.1028	0.1240
82	PAN070136	0.1885	0.3226
83	PAN080136	0.1901	0.6565
84	PAN090136	0.0394	0.1506
85	PAN100136	0.0396	0.1326
86	PAN105136	0.0256	0.1794
87	PAN110136	0.0236	0.1588
88	PAN115136	0.0222	0.1551
89	PAN120136	0.0472	0.3882
90	PAN125136	0.0112	0.0791
91	PAN130136	0.0242	0.1659
92	PAN120048	0.0169	0.0673
93	PAN130048	0.0577	0.1890
94	PAN120224	0.0407	0.1405
95	PAN130224	0.0187	0.0575
96	PAN120312	0.0701	0.2662
97	PAN130312	0.0076	0.0252
98	PAB000136	0.0483	0.1098
99	PAB100136	0.0101	0.0297
100	PAB125136	0.0047	0.0149

Test: May01_04

dif

Date: Tue May 1 11:42:05 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0347	0.0790
102	PRV000001	0.0024	0.0090
103	PSR000001	0.0000	0.0000
104	PFM000001	0.1839	0.2467
105	PAN000136	0.7865	0.2178
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.1765
108	EMPTY	0.0444	0.4528
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0010	27.7778
112	VPW000001	0.0048	80.0000
113	VPW000002	0.0121	22.8733
114	VPW000003	0.0268	1276.1906
115	VPW000004	0.0379	50.4660
116	VPW000005	0.0169	59.9291
117	VPW000006	0.0354	3218.1816
118	IPW000001	0.2510	15.7683
119	IPW000002	0.0541	19.8169
120	IPW000003	0.2372	34.9904
121	IPW000004	0.0431	16.7704
122	IPW000005	0.1147	37.0718
123	IPW000006	0.0403	20.5089
124	EMPTY	0.0004	1.8518
125	EMPTY	0.0002	1.4084
126	EMPTY	0.0002	1.1236
127	EMPTY	0.0006	3.8462
128	IHT000001	0.0078	17.4888
129	IHT000002	0.0166	1659.9999
130	IHT000003	0.0396	557.7465
131	IHT000004	0.0194	186.5385
132	IHT000005	0.0105	102.9412
133	IHT000006	0.0285	23.9094
134	IHT000007	0.0299	88.4615
135	IHT000008	0.0212	154.7445
136	IHT000009	0.0233	71.4724
137	IHT000010	0.0079	17.5947
138	IHT000011	0.0081	112.5000
139	IHT000012	0.0127	59.9057
140	IHT000013	0.0081	10.8000
141	IHT000014	0.0042	5.5556
142	IHT000015	0.0034	12.4542
143	IHT000016	0.0082	37.1041
144	IHT000017	0.0046	5.7572
145	IHT000018	0.0027	5.2734
146	IHT000019	0.0032	3.3613
147	IHT000020	0.0126	43.5986
148	IHT000021	0.0206	40.0778
149	IHT000022	0.0415	32.3461
150	IHT000023	0.0050	8.0775
151	IHT000024	0.0025	5.9242
152	IHT000025	0.0081	11.9293
153	IHT000026	0.0043	7.7199
154	IHT000027	0.0162	35.4486
155	IHT000028	0.0122	32.1053

Test: May01_04

dif

Date: Tue May 1 11:42:05 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0004	57.1429
157	IHT000030	0.0063	7.9445
158	IHT000031	0.0099	26.3298
159	IHT000032	0.0119	105.3097
160	IHT000033	0.0001	2.5641
161	IHT000034	0.0303	58.4942
162	IHT000035	0.0055	14.9864
163	IHT000036	0.0034	10.8626

Test: May01_05

sum1

Date: Tue May 1 11:45:55 1990

Page: 1

Velocity 1 = 20.0748 (ft/sec) (+/- 1.7196 %)
Velocity 2 = 13.6797 (ft/sec) (+/- 1.7009 %)
Pressure drop = 10.1854 (psi)
Tsat in = 268.3803 (deg F) Tsat out = 252.1361 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 81821.3047 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2380.4453 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5945	1.6089e-01	1.9000e+00
1	TRF000002	74.4388	75.0738	74.7690	1.2943e-01	1.9000e+00
2	TFM000001	87.5683	88.3023	87.9918	1.9516e-01	1.9002e+00
3	TIN000001	87.1985	87.9343	87.6610	1.6308e-01	1.9002e+00
4	TRV000001	87.3948	88.3358	87.8178	2.0918e-01	1.9002e+00
5	TSR000001	87.8416	88.4687	88.2139	1.4372e-01	1.9002e+00
6	TAO020136	87.7883	88.8381	88.3214	2.5534e-01	1.9002e+00
7	TAO050136	87.7486	88.4807	88.1541	1.5632e-01	1.9002e+00
8	TAO070136	85.6734	86.5163	86.1413	1.9050e-01	1.9002e+00
9	TAO080136	87.7439	88.2676	88.0118	1.6806e-01	1.9002e+00
10	TAO090136	87.7203	88.5593	88.2280	1.8497e-01	1.9002e+00
11	TAO100136	87.6899	88.3198	88.0553	1.7375e-01	1.9002e+00
12	TAO105136	88.1854	89.1304	88.6517	2.0143e-01	1.9002e+00
13	TAO110136	85.5885	86.2180	85.9496	1.6138e-01	1.9002e+00
14	TAO115136	87.8529	88.5889	88.2482	1.8826e-01	1.9002e+00
15	TAO120136	87.6695	88.2973	87.9385	1.4065e-01	1.9002e+00
16	TAO125136	87.8675	88.6007	88.1778	1.6799e-01	1.9002e+00
17	TAO130136	87.5844	88.2114	87.8739	1.5149e-01	1.9002e+00
18	TAO120048	87.7115	88.3403	88.0303	1.5848e-01	1.9002e+00
19	TAO130048	87.4307	88.0595	87.7744	1.5120e-01	1.9002e+00
20	TAO120224	87.5330	88.2675	87.8897	1.6696e-01	1.9002e+00
21	TAO130224	87.6331	88.2614	87.9228	1.6852e-01	1.9002e+00
22	TAO120312	87.5646	88.2995	87.8963	1.8648e-01	1.9002e+00
23	TAO130312	87.3898	88.0196	87.8012	1.5549e-01	1.9002e+00
24	TRT020000	87.8683	88.7098	88.2930	2.0912e-01	1.9002e+00
25	TRT070000	87.8391	88.3655	88.1340	1.3609e-01	1.9002e+00
26	TRT100000	87.8746	88.7126	88.4149	2.0545e-01	1.9002e+00
27	TRT120000	87.7873	88.4166	88.1689	1.6787e-01	1.9002e+00
28	TRT125000	87.7467	88.5836	88.1781	1.8370e-01	1.9002e+00
29	TRT130000	87.6589	88.2884	87.9864	1.5935e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.1500e-01	1.9011e+00
31	TAF050136	87.7529	88.5908	88.2889	1.7785e-01	1.9002e+00
32	TAF070136	88.2728	89.1082	88.6742	1.8698e-01	1.9002e+00
33	TAF080136	87.8967	88.4199	88.1852	1.5325e-01	1.9002e+00
34	TAF090136	85.2050	86.3593	85.7929	2.8447e-01	1.9002e+00
35	TAF100136	87.6643	88.3997	87.9962	1.7154e-01	1.9002e+00
36	TAF105136	87.5740	88.5130	88.0828	2.2844e-01	1.9002e+00
37	TAF110136	87.5255	88.1536	87.8566	1.5177e-01	1.9002e+00
38	TAF115136	87.9575	88.7953	88.4268	2.0873e-01	1.9002e+00
39	TAF120136	87.8794	88.2999	88.1275	1.2144e-01	1.9002e+00
40	TAF125136	87.8515	88.7911	88.3566	2.8221e-01	1.9002e+00
41	TAF130136	87.7591	88.5975	88.1663	1.8412e-01	1.9002e+00
42	TAF120048	88.0309	88.8761	88.5463	2.3585e-01	1.9002e+00
43	TAF130048	87.5847	88.4241	88.0884	1.9651e-01	1.9002e+00
44	TAF120224	87.6596	88.4991	88.1422	2.3319e-01	1.9002e+00
45	TAF130224	87.2504	87.9878	87.6421	1.7545e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0618	2.4155e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1556	4.5456e-02	1.9010e+00
48	TAI130138	87.5552	88.9184	88.3481	3.1365e-01	1.9002e+00
49	TAI130226	87.1917	87.9252	87.6482	1.7674e-01	1.9002e+00
50	TAI130314	87.8085	88.9642	88.3759	2.7344e-01	1.9002e+00
51	TAI130042	87.2874	88.0225	87.7200	1.9045e-01	1.9002e+00
52	TRR130090	87.1704	88.1137	87.5520	2.2776e-01	1.9002e+00
53	TSI000001	81.9044	82.5372	82.2841	1.6758e-01	1.9001e+00
54	TSI000002	76.4271	77.4840	77.0358	2.7031e-01	1.9000e+00
55	TSO000001	75.3122	76.0564	75.7369	1.8719e-01	1.9000e+00
56	TSO000002	82.5218	83.3649	82.9225	2.2012e-01	1.9001e+00
57	TAF020136	87.0844	87.9266	87.4883	1.8221e-01	1.9002e+00
58	TAF120312	87.3689	88.4169	87.8805	2.5732e-01	1.9002e+00
59	TAF130312	86.9457	87.7842	87.4528	1.5326e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4990	1.9730e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5132	1.4797e-03	0.0000e+00
62	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5432	2.1065e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3449	2.3675e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3658	1.3381e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.4000	1.3381e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4142	1.8950e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4298	6.9053e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4469	2.4642e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4695	1.8082e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4836	9.6655e-04	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5183	1.7115e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5945	2.1065e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6155	1.1714e-03	0.0000e+00
80	PAN020136	35.1115	37.9344	36.4543	5.6128e-01	8.7476e-01
81	PAN050136	63.5078	65.7966	64.6522	5.8267e-01	1.6878e+00
82	PAN070136	44.6954	46.9842	45.7909	5.2197e-01	8.7750e-01
83	PAN080136	22.0813	23.1494	22.5635	2.2146e-01	8.7183e-01
84	PAN090136	19.7999	20.4866	20.1555	1.4010e-01	8.7146e-01
85	PAN100136	23.1099	23.7202	23.4532	1.4064e-01	8.7197e-01
86	PAN105136	10.8639	11.3217	11.0608	9.2598e-02	8.7044e-01
87	PAN110136	11.4963	11.8778	11.7084	1.0024e-01	8.7049e-01
88	PAN115136	11.3568	11.7383	11.5323	1.1353e-01	8.7048e-01
89	PAN120136	8.8539	9.1591	9.0324	8.9360e-02	8.7029e-01
90	PAN125136	10.7935	11.1750	10.9766	9.3758e-02	8.7043e-01
91	PAN130136	11.2630	11.6445	11.4492	9.1397e-02	8.7047e-01
92	PAN120048	19.4801	20.0141	19.7822	1.2133e-01	8.7140e-01
93	PAN130048	23.6615	24.2719	23.9590	1.4804e-01	8.7206e-01
94	PAN120224	22.3851	22.9954	22.7162	1.4509e-01	8.7185e-01
95	PAN130224	25.2476	25.8579	25.5222	1.5491e-01	8.7234e-01
96	PAN120312	20.1535	20.6876	20.4526	1.1414e-01	8.7150e-01
97	PAN130312	23.3403	23.9507	23.7325	1.3873e-01	8.7202e-01
98	PAB000136	40.4817	40.9852	40.6840	1.0344e-01	5.8885e-01
99	PAB100136	32.7754	32.9585	32.8651	3.8087e-02	5.8579e-01
100	PAB125136	30.8114	30.9487	30.8837	4.3467e-02	5.8512e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0312	40.7636	40.4487	1.6560e-01	7.5679e-01
102	PRV0000001	26.7021	26.8241	26.7094	2.9284e-02	7.5297e-01
103	PSR0000001	28.9768	29.0989	29.0842	4.0071e-02	7.5352e-01
104	PFM0000001	61.4143	62.5130	62.0167	2.6553e-01	5.2349e-01
105	PAN000136	278.6291	286.4110	281.9891	1.7218e+00	4.9703e+00
106	PFM0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0063	2.4164e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2285	-9.7486	1.9121e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0027	2.4484e-03	0.0000e+00
112	VPW0000001	-0.0451	0.1502	-0.0255	5.9189e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0451	7.8918e-02	8.1000e-01
114	VPW0000003	-0.2479	0.1427	0.0021	9.6976e-02	8.1000e-01
115	VPW0000004	-0.1728	0.0225	-0.0673	9.8332e-02	8.1000e-01
116	VPW0000005	-0.1202	0.0751	0.0126	9.2034e-02	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0185	8.7880e-02	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-0.9280	1.1674e+00	8.1000e+00
119	IPW0000002	-0.9755	2.9271	0.6636	1.0695e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.4439	1.0303e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.2667	2.2603e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	-0.2020	2.5740e-01	2.0000e+00
123	IPW0000006	-0.7043	0.7606	-0.0695	3.3087e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.4793e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	2.8659e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0140	3.6924e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0524	8.3612e-02	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0422	8.4997e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0377	4.8166e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0918	8.8585e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0599	8.3612e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0566	7.8523e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0173	8.8233e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0671	6.1257e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0756	7.2866e-02	4.1000e+00
142	IHT0000015	0.0000	0.1953	0.0234	6.4113e-02	4.1000e+00
143	IHT0000016	-0.0338	0.1615	-0.0260	3.8662e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0487	1.5530e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0551	1.0885e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0796	9.8648e-02	4.1000e+00
147	IHT0000020	-0.2554	0.1352	-0.0250	8.5454e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0358	8.4262e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.1009	9.7935e-02	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0502	9.2034e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0696	9.3043e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0640	9.2456e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0518	5.9189e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0418	6.1257e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0497	1.0907e-01	4.1000e+00

Test: May01_05

sum1

Date: Tue May 1 11:45:55 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.3718	0.0085	7.9017e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0559	1.2577e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0297	1.1975e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0195	9.8648e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0406	9.6655e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00

Velocity 1 = 20.0612 (ft/sec) (+/- 1.7197 %)
Velocity 2 = 13.6796 (ft/sec) (+/- 1.7009 %)
Pressure drop = 10.2031 (psi)
Tsats in = 268.3603 (deg F) Tsats out = 252.0984 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 54000.1211 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 203670.2813 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.6023	1.5266e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.7325	1.1281e-01	1.9000e+00
2	TFM000001	87.5683	88.3023	87.8808	1.8460e-01	1.9002e+00
3	TIN000001	87.3033	87.7243	87.5332	1.1686e-01	1.9002e+00
4	TRV000001	87.3942	88.1271	87.8030	1.7887e-01	1.9002e+00
5	TSR000001	87.9450	88.4693	88.2172	1.1695e-01	1.9002e+00
6	TAO020136	87.6829	88.6283	88.2531	2.1651e-01	1.9002e+00
7	TAO050136	87.7486	88.4807	88.0772	1.5097e-01	1.9002e+00
8	TAO070136	85.6734	86.6216	86.0863	2.0153e-01	1.9002e+00
9	TAO080136	87.6386	88.2676	87.9194	1.5884e-01	1.9002e+00
10	TAO090136	87.7215	88.5593	88.1038	1.8343e-01	1.9002e+00
11	TAO100136	87.5858	88.3198	87.9495	1.4055e-01	1.9002e+00
12	TAO105136	88.1854	89.0253	88.5755	1.9874e-01	1.9002e+00
13	TAO110136	85.6940	86.2180	85.9207	1.4699e-01	1.9002e+00
14	TAO115136	87.6423	88.5894	88.1297	2.1967e-01	1.9002e+00
15	TAO120136	87.4616	88.0901	87.8271	1.4167e-01	1.9002e+00
16	TAO125136	87.7628	88.4967	88.0838	1.6630e-01	1.9002e+00
17	TAO130136	87.4838	88.0050	87.7889	1.1760e-01	1.9002e+00
18	TAO120048	87.7115	88.2362	87.9685	1.4371e-01	1.9002e+00
19	TAO130048	87.3266	87.8508	87.6513	1.2886e-01	1.9002e+00
20	TAO120224	87.5330	88.2675	87.8286	1.6816e-01	1.9002e+00
21	TAO130224	87.6331	88.1561	87.8671	1.1568e-01	1.9002e+00
22	TAO120312	87.4593	88.1942	87.8132	1.7234e-01	1.9002e+00
23	TAO130312	87.3898	88.0196	87.7007	1.5124e-01	1.9002e+00
24	TRT020000	87.8683	88.6041	88.2073	1.5954e-01	1.9002e+00
25	TRT070000	87.7333	88.3655	88.0799	1.2530e-01	1.9002e+00
26	TRT100000	87.9793	88.7126	88.3341	1.9905e-01	1.9002e+00
27	TRT120000	87.7868	88.4166	88.0891	1.5379e-01	1.9002e+00
28	TRT125000	87.7467	88.5836	88.1719	1.9353e-01	1.9002e+00
29	TRT130000	87.6589	88.2884	87.9014	1.3566e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.7228	1.9386e-01	1.9011e+00
31	TAF050136	87.8576	88.5908	88.1655	1.6057e-01	1.9002e+00
32	TAF070136	88.1694	88.8997	88.5546	1.8366e-01	1.9002e+00
33	TAF080136	87.6886	88.4199	88.0551	1.3858e-01	1.9002e+00
34	TAF090136	85.3100	86.2544	85.7557	2.4656e-01	1.9002e+00
35	TAF100136	87.5590	88.1897	87.8916	1.5667e-01	1.9002e+00
36	TAF105136	87.5740	88.4083	87.9743	1.8955e-01	1.9002e+00
37	TAF110136	87.3164	88.0499	87.7481	1.5366e-01	1.9002e+00
38	TAF115136	87.9575	88.6913	88.3681	2.0495e-01	1.9002e+00
39	TAF120136	87.6704	88.2999	88.0153	1.3853e-01	1.9002e+00
40	TAF125136	87.6433	88.7911	88.1841	2.4977e-01	1.9002e+00
41	TAF130136	87.5497	88.3888	88.0486	1.5803e-01	1.9002e+00
42	TAF120048	87.9262	88.8748	88.3997	1.9750e-01	1.9002e+00
43	TAF130048	87.5847	88.2147	87.9512	1.5459e-01	1.9002e+00
44	TAF120224	87.7643	88.4991	88.0600	1.7621e-01	1.9002e+00
45	TAF130224	87.2493	87.8821	87.5447	1.3764e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0396	1.9731e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1793	9.3751e-02	1.9010e+00
48	TAI130138	87.6599	88.8138	88.2766	2.9479e-01	1.9002e+00
49	TAI130226	87.1917	87.9252	87.5978	2.0896e-01	1.9002e+00
50	TAI130314	87.9135	88.8590	88.3661	2.7645e-01	1.9002e+00
51	TAI130042	87.2874	88.0225	87.7160	1.9384e-01	1.9002e+00
52	TRR130090	87.0663	88.1137	87.5812	2.2412e-01	1.9002e+00
53	TSI000001	82.0102	82.5372	82.2982	1.4064e-01	1.9001e+00
54	TSI000002	76.5327	77.4840	77.0460	2.7098e-01	1.9000e+00
55	TSO000001	75.3117	75.9501	75.6566	1.6320e-01	1.9000e+00
56	TSO000002	82.5218	83.1545	82.8684	1.8487e-01	1.9001e+00
57	TAF020136	87.0835	87.7160	87.3654	1.6572e-01	1.9002e+00
58	TAF120312	87.3689	88.3127	87.8268	3.0615e-01	1.9002e+00
59	TAF130312	86.9451	87.7842	87.3329	1.6326e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4981	6.9754e-04	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5128	6.9754e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5270	1.1827e-03	0.0000e+00
63	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3426	1.8234e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3642	2.4247e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3808	6.9754e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3975	2.4247e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4114	2.1215e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4299	9.7615e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4452	1.9103e-03	0.0000e+00
71	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
72	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5180	1.3508e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5519	6.9754e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5712	6.9754e-04	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5942	2.2737e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6155	1.1827e-03	0.0000e+00
80	PAN020136	35.7219	37.7055	36.2918	4.2851e-01	8.7472e-01
81	PAN050136	63.3552	65.4914	64.6569	5.2684e-01	1.6878e+00
82	PAN070136	45.0005	46.6790	45.7339	4.6429e-01	8.7748e-01
83	PAN080136	22.2339	23.0732	22.6403	2.1601e-01	8.7184e-01
84	PAN090136	19.8762	20.4103	20.2094	1.2133e-01	8.7147e-01
85	PAN100136	23.1099	23.7202	23.4633	1.3549e-01	8.7198e-01
86	PAN105136	10.8639	11.3217	11.1022	1.0049e-01	8.7044e-01
87	PAN110136	11.5726	11.8778	11.7127	9.3890e-02	8.7049e-01
88	PAN115136	11.3568	11.7383	11.5779	1.0241e-01	8.7048e-01
89	PAN120136	8.9302	9.2354	9.0563	7.7165e-02	8.7029e-01
90	PAN125136	10.7935	11.1750	11.0130	8.1865e-02	8.7044e-01
91	PAN130136	11.2630	11.7208	11.4795	9.8921e-02	8.7047e-01
92	PAN120048	19.5564	20.0904	19.8304	1.1852e-01	8.7141e-01
93	PAN130048	23.7378	24.3482	23.9994	1.3397e-01	8.7207e-01
94	PAN120224	22.4614	22.9954	22.6949	1.2974e-01	8.7185e-01
95	PAN130224	25.1713	25.8579	25.5590	1.4596e-01	8.7234e-01
96	PAN120312	20.1535	20.7639	20.4805	1.3666e-01	8.7151e-01
97	PAN130312	23.4166	23.9507	23.7420	1.3102e-01	8.7202e-01
98	PAB000136	40.4359	40.8936	40.6704	1.0134e-01	5.8884e-01
99	PAB100136	32.7754	32.9127	32.8604	3.3690e-02	5.8579e-01
100	PAB125136	30.8114	30.9487	30.8637	4.1788e-02	5.8511e-01

Test: May01_05

sum2

Date: Tue May 1 11:45:55 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1533	41.0078	40.5095	1.9594e-01	7.5681e-01
102	PRV000001	26.7021	26.8241	26.7095	2.9569e-02	7.5297e-01
103	PSR000001	28.9768	29.0989	29.0366	6.1655e-02	7.5350e-01
104	PFM000001	61.0481	62.6045	61.9337	3.2228e-01	5.2342e-01
105	PAN000136	279.0868	286.4110	282.4779	1.7303e+00	4.9704e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0073	2.4662e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2529	-9.7854	1.5815e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0031	2.3783e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0028	8.4860e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0291	7.8092e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0032	9.7656e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.1050	9.3931e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0273	1.0941e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0064	1.2122e-01	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.2611	1.2023e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4979	1.2925e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	-0.1622	1.2116e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2538	2.3135e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.3441	2.8296e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0566	3.0538e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.3574e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	2.7128e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.6690e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.3845e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0444	1.0092e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0215	9.3759e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0427	8.5810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0338	7.9736e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0117	9.5132e-02	4.1000e+00
133	IHT000006	-0.1465	0.2441	-0.0907	9.7656e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0318	9.8648e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0189	9.3931e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0479	8.7680e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0448	8.4477e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	7.9736e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0364	8.2141e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0669	6.1868e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0758	7.3601e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0239	6.4688e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0258	5.5804e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0606	1.4895e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0286	9.7490e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0960	8.6187e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0362	7.5986e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0627	7.1817e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1027	9.8153e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0609	8.7123e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0566	1.0701e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0521	7.9328e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0514	7.1817e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0380	6.8582e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0662	1.1947e-01	4.1000e+00

Test: May01_05

sum2

Date: Tue May 1 11:45:55 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0131	9.2189e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0816	9.7656e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0595	1.1146e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0153	9.3412e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0080	8.8783e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0534	1.1219e-01	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0262	1.0836e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0120	7.3601e-02	4.1000e+00

Test: May01_05 dif Date: Tue May 1 11:45:55 1990 Page: 1

Velocity 1 = 0.013601 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.017700 (psi)

Tsat in = 0.020020 (deg F) Tsat out = 0.037689 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0078	0.0105
1	TRF000002	0.0365	0.0488
2	TFM000001	0.1110	0.1261
3	TIN000001	0.1278	0.1458
4	TRV000001	0.0148	0.0169
5	TSR000001	0.0033	0.0037
6	TAO020136	0.0683	0.0773
7	TAO050136	0.0769	0.0872
8	TAO070136	0.0550	0.0638
9	TAO080136	0.0924	0.1050
10	TAO090136	0.1242	0.1408
11	TAO100136	0.1058	0.1201
12	TAO105136	0.0762	0.0860
13	TAO110136	0.0289	0.0336
14	TAO115136	0.1185	0.1343
15	TAO120136	0.1114	0.1267
16	TAO125136	0.0940	0.1066
17	TAO130136	0.0850	0.0967
18	TAO120048	0.0618	0.0702
19	TAO130048	0.1231	0.1402
20	TAO120224	0.0611	0.0695
21	TAO130224	0.0557	0.0633
22	TAO120312	0.0831	0.0945
23	TAO130312	0.1005	0.1145
24	TRT020000	0.0857	0.0971
25	TRT070000	0.0541	0.0614
26	TRT100000	0.0808	0.0914
27	TRT120000	0.0798	0.0905
28	TRT125000	0.0062	0.0070
29	TRT130000	0.0850	0.0966
30	EMPTY	0.1126	0.2843
31	TAF050136	0.1234	0.1398
32	TAF070136	0.1196	0.1349
33	TAF080136	0.1301	0.1475
34	TAF090136	0.0372	0.0434
35	TAF100136	0.1046	0.1189
36	TAF105136	0.1085	0.1232
37	TAF110136	0.1085	0.1235
38	TAF115136	0.0587	0.0664
39	TAF120136	0.1122	0.1273
40	TAF125136	0.1725	0.1952
41	TAF130136	0.1177	0.1335
42	TAF120048	0.1466	0.1656
43	TAF130048	0.1372	0.1558
44	TAF120224	0.0822	0.0933
45	TAF130224	0.0974	0.1111

#	Name	Abs Diff	%Diff
46	EMPTY	0.0222	0.0583
47	EMPTY	0.0237	0.0605
48	TAI130138	0.0715	0.0809
49	TAI130226	0.0504	0.0575
50	TAI130314	0.0098	0.0111
51	TAI130042	0.0040	0.0046
52	TRR130090	0.0292	0.0333
53	TSI000001	0.0141	0.0171
54	TSI000002	0.0102	0.0132
55	TSO000001	0.0803	0.1060
56	TSO000002	0.0541	0.0652
57	TAF020136	0.1229	0.1405
58	TAF120312	0.0537	0.0611
59	TAF130312	0.1199	0.1371
60	EMPTY	0.0009	0.1804
61	EMPTY	0.0004	0.0779
62	EMPTY	0.0003	0.0569
63	EMPTY	0.0012	0.2209
64	EMPTY	0.0023	0.6669
65	EMPTY	0.0016	0.4374
66	EMPTY	0.0002	0.0525
67	EMPTY	0.0025	0.6250
68	EMPTY	0.0028	0.6760
69	EMPTY	0.0001	0.0233
70	EMPTY	0.0017	0.3804
71	EMPTY	0.0007	0.1491
72	EMPTY	0.0002	0.0414
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0003	0.0579
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0181
77	EMPTY	0.0001	0.0175
78	EMPTY	0.0003	0.0505
79	EMPTY	0.0000	0.0000
80	PAN020136	0.1625	0.4458
81	PAN050136	0.0047	0.0073
82	PAN070136	0.0570	0.1245
83	PAN080136	0.0768	0.3404
84	PAN090136	0.0539	0.2674
85	PAN100136	0.0101	0.0431
86	PAN105136	0.0414	0.3743
87	PAN110136	0.0043	0.0367
88	PAN115136	0.0456	0.3954
89	PAN120136	0.0239	0.2646
90	PAN125136	0.0364	0.3316
91	PAN130136	0.0303	0.2646
92	PAN120048	0.0482	0.2437
93	PAN130048	0.0404	0.1686
94	PAN120224	0.0213	0.0938
95	PAN130224	0.0368	0.1442
96	PAN120312	0.0279	0.1364
97	PAN130312	0.0095	0.0400
98	PAB000136	0.0136	0.0334
99	PAB100136	0.0047	0.0143
100	PAB125136	0.0200	0.0648

Test: May01_05

dif

Date: Tue May 1 11:45:55 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0608	0.1503
102	PRV000001	0.0001	0.0004
103	PSR000001	0.0476	0.1637
104	PFM000001	0.0830	0.1338
105	PAN000136	0.4888	0.1733
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	7.3529
108	EMPTY	0.0368	0.3775
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	14.8148
112	VPW000001	0.0283	110.9804
113	VPW000002	0.0160	35.4767
114	VPW000003	0.0011	52.3810
115	VPW000004	0.0377	56.0178
116	VPW000005	0.0147	116.6667
117	VPW000006	0.0121	65.4054
118	IPW000001	0.3331	35.8944
119	IPW000002	0.1657	24.9699
120	IPW000003	0.2817	63.4602
121	IPW000004	0.0129	4.8369
122	IPW000005	0.1421	70.3465
123	IPW000006	0.0129	18.5611
124	EMPTY	0.0008	3.7915
125	EMPTY	0.0007	4.9296
126	EMPTY	0.0002	1.1111
127	EMPTY	0.0018	12.8571
128	IHT000001	0.0080	15.2672
129	IHT000002	0.0009	4.3689
130	IHT000003	0.0005	1.1848
131	IHT000004	0.0039	10.3448
132	IHT000005	0.0093	387.4999
133	IHT000006	0.0011	1.1983
134	IHT000007	0.0098	23.5577
135	IHT000008	0.0104	35.4949
136	IHT000009	0.0120	20.0334
137	IHT000010	0.0118	20.8481
138	IHT000011	0.0117	354.5454
139	IHT000012	0.0191	110.4046
140	IHT000013	0.0002	0.2981
141	IHT000014	0.0002	0.2646
142	IHT000015	0.0005	2.1368
143	IHT000016	0.0002	0.7692
144	IHT000017	0.0119	24.4353
145	IHT000018	0.0265	48.0944
146	IHT000019	0.0164	20.6030
147	IHT000020	0.0112	44.8000
148	IHT000021	0.0269	75.1397
149	IHT000022	0.0018	1.7839
150	IHT000023	0.0107	21.3147
151	IHT000024	0.0130	18.6782
152	IHT000025	0.0119	18.5938
153	IHT000026	0.0004	0.7722
154	IHT000027	0.0038	9.0909
155	IHT000028	0.0165	33.1992

Test: May01_05 dif Date: Tue May 1 11:45:55 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0046	54.1176
157	IHT000030	0.0257	45.9750
158	IHT000031	0.0298	100.3367
159	IHT000032	0.0038	19.8953
160	IHT000033	0.0115	58.9744
161	IHT000034	0.0055	11.4823
162	IHT000035	0.0144	35.4680
163	IHT000036	0.0003	2.5641

Test: May01_06

suml

Date: Tue May 1 11:49:10 1990

Page: 1

Velocity 1 = 17.9844 (ft/sec) (+/- 1.7456 %)
Velocity 2 = 13.6779 (ft/sec) (+/- 1.7009 %)
Pressure drop = 7.4500 (psi)
Tsat in = 263.5605 (deg F) Tsat out = 251.1502 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5945.4712 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3035.8711 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.6455	1.8222e-01	1.9000e+00
1	TRF000002	74.6505	74.8621	74.7690	1.0614e-01	1.9000e+00
2	TFM000001	86.1017	86.8365	86.4419	1.9147e-01	1.9002e+00
3	TIN000001	85.7257	86.4625	86.1214	1.6272e-01	1.9002e+00
4	TRV000001	85.8279	86.7706	86.3475	2.2492e-01	1.9002e+00
5	TSR000001	87.4243	88.0516	87.7510	1.4457e-01	1.9002e+00
6	TAO020136	86.2112	87.1576	86.8085	2.3792e-01	1.9002e+00
7	TAO050136	86.2880	87.0210	86.6317	1.6809e-01	1.9002e+00
8	TAO070136	84.8294	85.9892	85.1920	2.3157e-01	1.9002e+00
9	TAO080136	86.0752	86.7049	86.4439	1.4409e-01	1.9002e+00
10	TAO090136	86.2545	87.0939	86.6785	2.0222e-01	1.9002e+00
11	TAO100136	86.2234	86.7492	86.4714	1.4366e-01	1.9002e+00
12	TAO105136	86.7142	87.4501	87.1137	1.9350e-01	1.9002e+00
13	TAO110136	84.6518	85.3848	84.9997	1.6997e-01	1.9002e+00
14	TAO115136	86.2733	87.0102	86.7071	2.1657e-01	1.9002e+00
15	TAO120136	86.1109	86.7400	86.4082	1.6445e-01	1.9002e+00
16	TAO125136	86.2963	87.0310	86.6532	1.7620e-01	1.9002e+00
17	TAO130136	86.0369	86.7618	86.3582	1.6713e-01	1.9002e+00
18	TAO120048	86.2443	86.8750	86.5259	1.8789e-01	1.9002e+00
19	TAO130048	85.8639	86.5976	86.2288	1.3957e-01	1.9002e+00
20	TAO120224	86.0644	86.5899	86.3587	1.6445e-01	1.9002e+00
21	TAO130224	86.0744	86.7035	86.4009	1.6214e-01	1.9002e+00
22	TAO120312	85.8846	86.8304	86.3429	2.0009e-01	1.9002e+00
23	TAO130312	86.0299	86.5549	86.2317	1.6421e-01	1.9002e+00
24	TRT020000	86.3946	87.2367	86.7693	1.8436e-01	1.9002e+00
25	TRT070000	86.3601	86.8882	86.6341	1.6076e-01	1.9002e+00
26	TRT100000	86.5144	87.2486	86.8795	2.2148e-01	1.9002e+00
27	TRT120000	86.2155	86.9504	86.6354	1.8740e-01	1.9002e+00
28	TRT125000	86.2893	87.1255	86.6572	1.7847e-01	1.9002e+00
29	TRT130000	85.9870	86.8250	86.4266	1.7737e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.9433e-01	1.9011e+00
31	TAF050136	86.3932	87.1273	86.6870	1.8723e-01	1.9002e+00
32	TAF070136	86.6028	87.7534	87.1261	2.2862e-01	1.9002e+00
33	TAF080136	86.2312	87.0686	86.6286	1.8079e-01	1.9002e+00
34	TAF090136	84.2604	85.4161	84.8321	2.6687e-01	1.9001e+00
35	TAF100136	86.0874	86.8237	86.4448	1.8283e-01	1.9002e+00
36	TAF105136	86.1171	87.1625	86.5436	2.7495e-01	1.9002e+00
37	TAF110136	86.0609	86.6898	86.3172	1.7113e-01	1.9002e+00
38	TAF115136	86.4910	87.3310	86.9233	2.1576e-01	1.9002e+00
39	TAF120136	86.3122	86.8370	86.5475	1.4779e-01	1.9002e+00
40	TAF125136	86.1846	87.3338	86.7281	2.8613e-01	1.9002e+00
41	TAF130136	86.1887	86.9234	86.5917	1.6066e-01	1.9002e+00
42	TAF120048	86.4466	87.3964	86.9447	2.3069e-01	1.9002e+00
43	TAF130048	86.0127	86.7478	86.5083	1.7110e-01	1.9002e+00
44	TAF120224	86.2944	87.0301	86.6266	1.6221e-01	1.9002e+00
45	TAF130224	85.6656	86.4040	86.0792	1.9037e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0756	2.2570e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1556	4.5456e-02	1.9010e+00
48	TAI130138	86.0851	87.3458	86.7913	2.9710e-01	1.9002e+00
49	TAI130226	85.7272	86.4615	86.1300	2.1118e-01	1.9002e+00
50	TAI130314	86.1255	87.4931	86.7400	3.0752e-01	1.9002e+00
51	TAI130042	85.8171	86.5530	86.1452	1.9539e-01	1.9002e+00
52	TRR130090	85.9133	86.8576	86.2913	2.4157e-01	1.9002e+00
53	TSI000001	82.2205	82.9576	82.4818	1.9990e-01	1.9001e+00
54	TSI000002	75.7942	76.8509	76.3983	2.6581e-01	1.9000e+00
55	TSO000001	74.1398	75.0977	74.6294	1.9581e-01	1.9000e+00
56	TSO000002	81.5746	82.4184	81.8952	2.1819e-01	1.9001e+00
57	TAF020136	85.4995	86.3433	85.9299	1.9740e-01	1.9002e+00
58	TAF120312	85.6910	86.8458	86.3838	2.9766e-01	1.9002e+00
59	TAF130312	85.5849	86.2156	85.8664	1.7034e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
62	EMPTY	0.4883	0.4980	0.4930	1.3811e-03	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3470	1.1714e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3654	1.8082e-03	0.0000e+00
67	EMPTY	0.3809	0.3906	0.3821	2.3778e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4300	1.1714e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4688	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4932	0.4883	9.8648e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5223	9.6655e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5799	2.1065e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6009	1.1714e-03	0.0000e+00
80	PAN020136	25.1170	27.3296	26.4202	4.7828e-01	8.7250e-01
81	PAN050136	45.9602	47.9438	47.0070	5.2408e-01	1.6841e+00
82	PAN070136	32.3357	34.6245	33.5702	4.5141e-01	8.7404e-01
83	PAN080136	16.1304	16.8933	16.5165	1.7192e-01	8.7098e-01
84	PAN090136	14.3068	14.7645	14.5402	1.1159e-01	8.7076e-01
85	PAN100136	16.8538	17.5404	17.1940	1.6472e-01	8.7106e-01
86	PAN105136	7.8122	8.2700	8.0777	1.1559e-01	8.7023e-01
87	PAN110136	8.3682	8.7497	8.5834	8.8128e-02	8.7026e-01
88	PAN115136	8.3814	8.8391	8.6179	8.7533e-02	8.7027e-01
89	PAN120136	6.0310	6.3362	6.1882	8.3590e-02	8.7014e-01
90	PAN125136	7.6654	8.0469	7.7738	8.1693e-02	8.7022e-01
91	PAN130136	8.4402	8.8216	8.5927	9.3758e-02	8.7027e-01
92	PAN120048	14.5210	15.1313	14.7590	1.3841e-01	8.7078e-01
93	PAN130048	17.2528	17.8632	17.5458	1.2929e-01	8.7111e-01
94	PAN120224	16.4341	17.1208	16.6844	1.3617e-01	8.7100e-01
95	PAN130224	18.5337	19.0678	18.8221	1.2738e-01	8.7127e-01
96	PAN120312	14.5841	15.1944	14.8419	1.2606e-01	8.7079e-01
97	PAN130312	17.1605	17.9234	17.4687	1.3434e-01	8.7110e-01
98	PAB000136	37.3231	37.7351	37.5163	1.0876e-01	5.8753e-01
99	PAB100136	31.7225	31.8599	31.7912	3.9508e-02	5.8542e-01
100	PAB125136	30.3078	30.4452	30.3646	3.9843e-02	5.8495e-01

Test: May01_06

sum1

Date: Tue May 1 11:49:10 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	36.9794	37.7119	37.3042	1.9669e-01	7.5578e-01
102	PRV000001	26.4579	26.7021	26.5849	3.4527e-02	7.5294e-01
103	PSR000001	28.8547	29.2209	28.9597	6.0459e-02	7.5349e-01
104	PFM000001	49.1463	50.3364	49.7322	2.7990e-01	5.1523e-01
105	PAN000136	200.8092	211.7956	206.2566	2.1175e+00	4.9469e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0058	1.8950e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4385	-9.7768	1.3888e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0018	2.5648e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0138	7.2330e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	6.6498e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	0.0138	9.3461e-02	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0634	1.0559e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0048	1.0992e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0458	7.1136e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1233	1.1302e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.6246	1.2271e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.1801	1.0423e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2472	2.3365e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.3094	2.6541e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0500	2.8946e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.6963e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.9594e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0181	2.6562e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.3249e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	7.3716e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0245	8.6541e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0305	4.6855e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0260	5.5243e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0298	1.0595e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0957	8.6541e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0651	9.3461e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0482	6.6498e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0332	7.7324e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	5.5804e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0329	8.4997e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	7.3716e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0521	9.1779e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0156	6.6498e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0878	1.2901e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0630	1.1084e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0992	1.0440e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0553	7.9017e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0892	9.5765e-02	4.1000e+00
150	IHT000023	-0.3080	0.0826	-0.0306	1.1223e-01	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0500	9.3461e-02	4.1000e+00
152	IHT000025	-0.4507	0.1352	-0.0601	9.6655e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0479	6.4113e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0261	6.2265e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	9.1779e-02	4.1000e+00

Test: May01_06

sum1

Date: Tue May 1 11:49:10 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	-0.0032	5.3525e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0754	9.8332e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0376	9.8648e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	6.8345e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0518	1.0440e-01	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0406	9.6655e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	7.1136e-02	4.1000e+00

Test: May01_06

sum2

Date: Tue May 1 11:49:10 1990

Page: 1

Velocity 1 = 17.9744 (ft/sec) (+/- 1.7458 %)
Velocity 2 = 13.6779 (ft/sec) (+/- 1.7009 %)
Pressure drop = 7.4655 (psi)
Tsats in = 263.6035 (deg F) Tsats out = 251.1667 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 36257.0977 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 30867.9922 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	74.8498	74.6501	1.7053e-01	1.9000e+00
1	TRF000002	74.4388	75.0738	74.7671	1.3705e-01	1.9000e+00
2	TFM000001	85.8920	86.8365	86.4039	1.9350e-01	1.9002e+00
3	TIN000001	85.7257	86.2521	86.0286	1.2816e-01	1.9002e+00
4	TRV000001	85.8279	86.7706	86.3218	2.3427e-01	1.9002e+00
5	TSR000001	87.4243	87.9482	87.7087	1.5716e-01	1.9002e+00
6	TAO020136	86.2112	87.1576	86.7199	2.2651e-01	1.9002e+00
7	TAO050136	86.1832	87.0210	86.5897	1.7852e-01	1.9002e+00
8	TAO070136	84.6183	85.5674	85.1112	2.0794e-01	1.9002e+00
9	TAO080136	85.9703	86.7044	86.4109	1.6437e-01	1.9002e+00
10	TAO090136	86.1497	86.9892	86.6615	1.9581e-01	1.9002e+00
11	TAO100136	86.1185	86.8535	86.4422	1.5732e-01	1.9002e+00
12	TAO105136	86.5038	87.5550	87.0039	2.2761e-01	1.9002e+00
13	TAO110136	84.6518	85.3848	84.9536	1.7844e-01	1.9002e+00
14	TAO115136	85.9576	87.0102	86.6063	2.4062e-01	1.9002e+00
15	TAO120136	86.0060	86.6346	86.3187	1.4900e-01	1.9002e+00
16	TAO125136	86.1914	86.9263	86.5985	1.6271e-01	1.9002e+00
17	TAO130136	85.9320	86.5593	86.2572	1.5424e-01	1.9002e+00
18	TAO120048	86.1395	86.7696	86.4953	1.6987e-01	1.9002e+00
19	TAO130048	85.7590	86.4934	86.1530	1.6385e-01	1.9002e+00
20	TAO120224	85.9595	86.5899	86.3069	1.5790e-01	1.9002e+00
21	TAO130224	85.9695	86.7030	86.3205	1.6215e-01	1.9002e+00
22	TAO120312	85.7797	86.6204	86.3115	1.9479e-01	1.9002e+00
23	TAO130312	85.9250	86.5549	86.2038	1.4153e-01	1.9002e+00
24	TRT020000	86.2894	87.1313	86.7060	2.0146e-01	1.9002e+00
25	TRT070000	86.2541	86.8871	86.5426	1.3738e-01	1.9002e+00
26	TRT100000	86.3050	87.1438	86.7866	2.0748e-01	1.9002e+00
27	TRT120000	86.1106	86.7408	86.5520	1.7015e-01	1.9002e+00
28	TRT125000	86.0796	86.9171	86.6009	2.1617e-01	1.9002e+00
29	TRT130000	86.0909	86.7206	86.3972	1.4190e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6572	1.7696e-01	1.9011e+00
31	TAF050136	86.3932	86.9180	86.6781	1.6308e-01	1.9002e+00
32	TAF070136	86.6028	87.5447	87.0835	2.2195e-01	1.9002e+00
33	TAF080136	86.2312	86.8599	86.5836	1.5231e-01	1.9002e+00
34	TAF090136	83.9453	85.4161	84.7602	2.8325e-01	1.9001e+00
35	TAF100136	85.9819	86.7183	86.4006	2.0648e-01	1.9002e+00
36	TAF105136	85.9088	86.9539	86.5162	2.6059e-01	1.9002e+00
37	TAF110136	85.8516	86.5859	86.2391	1.6343e-01	1.9002e+00
38	TAF115136	86.3862	87.3304	86.8488	2.1620e-01	1.9002e+00
39	TAF120136	86.2074	86.7327	86.4818	1.2666e-01	1.9002e+00
40	TAF125136	85.9760	87.3338	86.7030	2.9846e-01	1.9002e+00
41	TAF130136	86.1887	86.9234	86.5422	1.8019e-01	1.9002e+00
42	TAF120048	86.2351	87.3964	86.8924	2.2522e-01	1.9002e+00
43	TAF130048	86.1176	86.8527	86.5077	1.6880e-01	1.9002e+00
44	TAF120224	86.0843	87.0295	86.5369	2.1038e-01	1.9002e+00
45	TAF130224	85.5607	86.5089	85.9949	1.9445e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0584	2.2885e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	5.7217e-02	1.9010e+00
48	TAI130138	86.1903	87.3458	86.8057	3.1505e-01	1.9002e+00
49	TAI130226	85.7272	86.4615	86.0849	1.7893e-01	1.9002e+00
50	TAI130314	86.1255	87.2828	86.7032	2.5776e-01	1.9002e+00
51	TAI130042	85.6074	86.4476	86.1025	2.0128e-01	1.9002e+00
52	TRR130090	85.5988	86.6481	86.2840	2.5799e-01	1.9002e+00
53	TSI000001	82.1153	82.7474	82.4765	1.8495e-01	1.9001e+00
54	TSI000002	75.6878	76.8509	76.3503	2.7865e-01	1.9000e+00
55	TSO000001	74.1398	74.8847	74.5677	2.1336e-01	1.9000e+00
56	TSO000002	81.5746	82.3126	81.8867	1.8998e-01	1.9001e+00
57	TAF020136	85.4995	86.3437	85.8978	1.9408e-01	1.9002e+00
58	TAF120312	85.5861	86.9505	86.2545	3.4725e-01	1.9002e+00
59	TAF130312	85.5849	86.1101	85.8615	1.5853e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4626	2.1781e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4775	1.9883e-03	0.0000e+00
62	EMPTY	0.4883	0.4932	0.4915	2.3483e-03	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5076	9.7615e-04	0.0000e+00
64	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
65	EMPTY	0.3418	0.3516	0.3469	1.3951e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3645	2.3483e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3812	1.1827e-03	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4149	6.9754e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4298	6.9754e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9754e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4881	9.7615e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5786	2.4662e-03	0.0000e+00
79	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
80	PAN020136	25.6511	28.0162	26.7799	5.4729e-01	8.7257e-01
81	PAN050136	45.5024	48.4016	46.9162	6.4945e-01	1.6841e+00
82	PAN070136	32.4883	34.8534	33.6701	5.5611e-01	8.7406e-01
83	PAN080136	16.1304	17.1222	16.4823	1.7607e-01	8.7098e-01
84	PAN090136	14.3068	14.8408	14.5372	1.1808e-01	8.7076e-01
85	PAN100136	16.7012	17.3115	17.1044	1.6334e-01	8.7105e-01
86	PAN105136	7.9648	8.4988	8.1828	1.1962e-01	8.7024e-01
87	PAN110136	8.3682	8.8260	8.5753	9.4730e-02	8.7026e-01
88	PAN115136	8.3051	8.6865	8.4468	9.6001e-02	8.7026e-01
89	PAN120136	6.1836	6.5651	6.3751	8.6880e-02	8.7015e-01
90	PAN125136	7.5891	8.0469	7.8071	9.8495e-02	8.7022e-01
91	PAN130136	8.2876	8.6690	8.5600	8.3866e-02	8.7026e-01
92	PAN120048	14.4447	14.9787	14.7514	1.3531e-01	8.7078e-01
93	PAN130048	17.1765	17.9395	17.5222	1.3851e-01	8.7110e-01
94	PAN120224	16.4341	16.9682	16.6677	1.2786e-01	8.7100e-01
95	PAN130224	18.4574	19.1441	18.7984	1.4197e-01	8.7127e-01
96	PAN120312	14.5078	15.1181	14.8083	1.3524e-01	8.7079e-01
97	PAN130312	17.2368	17.7709	17.4813	1.2934e-01	8.7110e-01
98	PAB000136	37.3231	37.7351	37.5436	9.2347e-02	5.8755e-01
99	PAB100136	31.7225	31.9057	31.8094	4.9660e-02	5.8543e-01
100	PAB125136	30.2621	30.4452	30.3732	4.8553e-02	5.8495e-01

Test: May01_06

sum2

Date: Tue May 1 11:49:10 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	36.8574	37.7119	37.3731	2.1617e-01	7.5580e-01
102	PRV000001	26.5800	26.5800	26.5800	3.8542e-06	7.5294e-01
103	PSR000001	28.8547	28.9768	28.9718	2.4404e-02	7.5349e-01
104	PFM000001	48.9631	50.1533	49.6769	2.4721e-01	5.1519e-01
105	PAN000136	202.1825	211.7956	206.6854	2.1068e+00	4.9471e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0062	2.1781e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1602	-9.7489	1.6962e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0021	2.4414e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0067	9.5812e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0291	7.8092e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0167	8.6187e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0851	9.8153e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0233	1.0378e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0183	1.2582e-01	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.4603	1.0311e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.2988	1.3537e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.0368	1.2196e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2438	2.3483e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3043	2.4618e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0466	2.7388e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0218	3.3210e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0179	3.3634e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	2.5231e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0603	9.3412e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0335	9.9303e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0387	8.2141e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0458	8.3705e-02	4.1000e+00
132	IHT000005	-0.2554	0.3305	0.0236	1.1276e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0947	9.5812e-02	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0677	1.0836e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0468	1.0640e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0559	6.8582e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0648	1.0424e-01	4.1000e+00
138	IHT000011	-0.0150	0.1803	0.0049	5.9734e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0245	8.3122e-02	4.1000e+00
140	IHT000013	-0.0789	0.1164	-0.0629	5.4032e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0678	7.4477e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0438	9.9792e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0258	5.5804e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0885	1.3025e-01	4.1000e+00
145	IHT000018	-0.1841	0.0113	-0.0445	8.9148e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1119	9.5812e-02	4.1000e+00
147	IHT000020	-0.0601	0.3305	-0.0163	9.1482e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0468	7.6412e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0947	1.0486e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0609	8.7123e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0407	1.1146e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0481	8.3705e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0435	8.9148e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0340	7.4477e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0582	1.1518e-01	4.1000e+00

Test: May01_06 sum2 Date: Tue May 1 11:49:10 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0068	6.1868e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0856	9.6990e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0475	1.1319e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0193	8.8783e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0040	7.4477e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0494	1.1146e-01	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0382	9.6150e-02	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0359	7.6412e-02	4.1000e+00

Test: May01_06 dif Date: Tue May 1 11:49:10 1990 Page: 1

Velocity 1 = 0.010000 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.015500 (psi)

Tsat in = 0.042999 (deg F) Tsat out = 0.016495 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0046	0.0062
1	TRF000002	0.0019	0.0025
2	TFM000001	0.0380	0.0440
3	TIN000001	0.0928	0.1078
4	TRV000001	0.0257	0.0298
5	TSR000001	0.0423	0.0482
6	TAO020136	0.0886	0.1021
7	TAO050136	0.0420	0.0485
8	TAO070136	0.0808	0.0948
9	TAO080136	0.0330	0.0382
10	TAO090136	0.0170	0.0196
11	TAO100136	0.0292	0.0338
12	TAO105136	0.1098	0.1260
13	TAO110136	0.0461	0.0542
14	TAO115136	0.1008	0.1163
15	TAO120136	0.0895	0.1036
16	TAO125136	0.0547	0.0631
17	TAO130136	0.1010	0.1170
18	TAO120048	0.0306	0.0354
19	TAO130048	0.0758	0.0879
20	TAO120224	0.0518	0.0600
21	TAO130224	0.0804	0.0931
22	TAO120312	0.0314	0.0364
23	TAO130312	0.0279	0.0324
24	TRT020000	0.0633	0.0730
25	TRT070000	0.0915	0.1056
26	TRT100000	0.0929	0.1069
27	TRT120000	0.0834	0.0963
28	TRT125000	0.0563	0.0650
29	TRT130000	0.0294	0.0340
30	EMPTY	0.0035	0.0088
31	TAF050136	0.0089	0.0103
32	TAF070136	0.0426	0.0489
33	TAF080136	0.0450	0.0519
34	TAF090136	0.0719	0.0848
35	TAF100136	0.0442	0.0511
36	TAF105136	0.0274	0.0317
37	TAF110136	0.0781	0.0905
38	TAF115136	0.0745	0.0857
39	TAF120136	0.0657	0.0759
40	TAF125136	0.0251	0.0289
41	TAF130136	0.0495	0.0572
42	TAF120048	0.0523	0.0602
43	TAF130048	0.0006	0.0007
44	TAF120224	0.0897	0.1035
45	TAF130224	0.0843	0.0979

#	Name	Abs Diff	%Diff
46	EMPTY	0.0172	0.0452
47	EMPTY	0.0045	0.0115
48	TAI130138	0.0144	0.0166
49	TAI130226	0.0451	0.0524
50	TAI130314	0.0368	0.0424
51	TAI130042	0.0427	0.0496
52	TRR130090	0.0073	0.0085
53	TSI000001	0.0053	0.0064
54	TSI000002	0.0480	0.0628
55	TSO000001	0.0617	0.0827
56	TSO000002	0.0085	0.0104
57	TAF020136	0.0321	0.0374
58	TAF120312	0.1293	0.1497
59	TAF130312	0.0049	0.0057
60	EMPTY	0.0012	0.2587
61	EMPTY	0.0008	0.1673
62	EMPTY	0.0015	0.3043
63	EMPTY	0.0003	0.0591
64	EMPTY	0.0002	0.0611
65	EMPTY	0.0001	0.0288
66	EMPTY	0.0009	0.2463
67	EMPTY	0.0009	0.2355
68	EMPTY	0.0001	0.0253
69	EMPTY	0.0001	0.0241
70	EMPTY	0.0002	0.0465
71	EMPTY	0.0001	0.0220
72	EMPTY	0.0001	0.0213
73	EMPTY	0.0002	0.0410
74	EMPTY	0.0003	0.0596
75	EMPTY	0.0002	0.0383
76	EMPTY	0.0001	0.0186
77	EMPTY	0.0001	0.0180
78	EMPTY	0.0013	0.2242
79	EMPTY	0.0003	0.0499
80	PAN020136	0.3597	1.3615
81	PAN050136	0.0908	0.1932
82	PAN070136	0.0999	0.2976
83	PAN080136	0.0342	0.2071
84	PAN090136	0.0030	0.0206
85	PAN100136	0.0896	0.5211
86	PAN105136	0.1051	1.3011
87	PAN110136	0.0081	0.0944
88	PAN115136	0.1711	1.9854
89	PAN120136	0.1869	3.0203
90	PAN125136	0.0333	0.4284
91	PAN130136	0.0327	0.3806
92	PAN120048	0.0076	0.0515
93	PAN130048	0.0236	0.1345
94	PAN120224	0.0167	0.1001
95	PAN130224	0.0237	0.1259
96	PAN120312	0.0336	0.2264
97	PAN130312	0.0126	0.0721
98	PAB000136	0.0273	0.0728
99	PAB100136	0.0182	0.0572
100	PAB125136	0.0086	0.0283

Test: May01_06

dif

Date: Tue May 1 11:49:10 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0689	0.1847
102	PRV000001	0.0049	0.0184
103	PSR000001	0.0121	0.0418
104	PFM000001	0.0553	0.1112
105	PAN000136	0.4288	0.2079
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	6.8966
108	EMPTY	0.0279	0.2854
109	EMPTY	0.0001	2.1277
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	16.6667
112	VPW000001	0.0205	148.5507
113	VPW000002	0.0004	1.3559
114	VPW000003	0.0305	221.0145
115	VPW000004	0.0217	34.2271
116	VPW000005	0.0185	385.4167
117	VPW000006	0.0275	60.0437
118	IPW000001	0.3370	30.0009
119	IPW000002	0.3258	52.1614
120	IPW000003	0.1433	79.5669
121	IPW000004	0.0034	1.3754
122	IPW000005	0.0051	1.6483
123	IPW000006	0.0034	6.8000
124	EMPTY	0.0009	4.3062
125	EMPTY	0.0004	2.7397
126	EMPTY	0.0002	1.1050
127	EMPTY	0.0005	3.2468
128	IHT000001	0.0079	15.0763
129	IHT000002	0.0090	36.7347
130	IHT000003	0.0082	26.8852
131	IHT000004	0.0198	76.1538
132	IHT000005	0.0062	20.8054
133	IHT000006	0.0010	1.0449
134	IHT000007	0.0026	3.9939
135	IHT000008	0.0253	117.6744
136	IHT000009	0.0077	15.9751
137	IHT000010	0.0316	95.1807
138	IHT000011	0.0199	132.6667
139	IHT000012	0.0084	25.5319
140	IHT000013	0.0121	16.1333
141	IHT000014	0.0157	30.1344
142	IHT000015	0.0282	180.7692
143	IHT000016	0.0037	16.7421
144	IHT000017	0.0007	0.7973
145	IHT000018	0.0185	29.3651
146	IHT000019	0.0127	12.8024
147	IHT000020	0.0008	4.6784
148	IHT000021	0.0085	15.3707
149	IHT000022	0.0055	6.1659
150	IHT000023	0.0303	99.0196
151	IHT000024	0.0093	18.6000
152	IHT000025	0.0120	19.9667
153	IHT000026	0.0044	9.1858
154	IHT000027	0.0079	30.2682
155	IHT000028	0.0202	53.1579

Test: May01_06 dif Date: Tue May 1 11:49:10 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0036	112.5000
157	IHT000030	0.0102	13.5279
158	IHT000031	0.0099	26.3298
159	IHT000032	0.0080	70.7965
160	IHT000033	0.0040	100.0000
161	IHT000034	0.0024	4.6332
162	IHT000035	0.0024	5.9113
163	IHT000036	0.0164	84.1026

Test: May01_07

sum1

Date: Tue May 1 11:51:44 1990

Page: 1

Velocity 1 = 15.9730 (ft/sec) (+/- 1.7893 %)
Velocity 2 = 13.6773 (ft/sec) (+/- 1.7009 %)
Pressure drop = 4.9963 (psi)
Tsat in = 258.9413 (deg F) Tsat out = 250.1901 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2548.7205 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 57494.9102 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	74.8498	74.6540	1.8161e-01	1.9000e+00
1	TRF000002	74.4388	75.0738	74.7901	1.3929e-01	1.9000e+00
2	TFM000001	85.5774	86.4174	85.9241	2.1964e-01	1.9002e+00
3	TIN000001	85.1996	85.8310	85.5509	1.6001e-01	1.9002e+00
4	TRV000001	85.4096	86.2485	85.8354	1.9561e-01	1.9002e+00
5	TSR000001	86.5891	87.4270	87.0519	1.7590e-01	1.9002e+00
6	TAO020136	85.6855	86.7371	86.1712	2.5139e-01	1.9002e+00
7	TAO050136	85.6616	86.3949	86.0661	1.7599e-01	1.9002e+00
8	TAO070136	84.4072	85.2509	84.7889	1.6762e-01	1.9001e+00
9	TAO080136	85.5528	86.2871	85.8826	1.4527e-01	1.9002e+00
10	TAO090136	85.7303	86.4653	86.1399	1.8154e-01	1.9002e+00
11	TAO100136	85.5941	86.2245	85.9073	1.5533e-01	1.9002e+00
12	TAO105136	86.0831	86.8194	86.5228	2.0893e-01	1.9002e+00
13	TAO110136	84.2347	84.9679	84.6266	1.5811e-01	1.9001e+00
14	TAO115136	85.5360	86.5889	86.0769	2.4354e-01	1.9002e+00
15	TAO120136	85.3814	86.1152	85.8110	1.6563e-01	1.9002e+00
16	TAO125136	85.7721	86.4023	86.0852	1.6085e-01	1.9002e+00
17	TAO130136	85.5184	85.9392	85.7610	1.3908e-01	1.9002e+00
18	TAO120048	85.5101	86.2454	85.9072	1.5055e-01	1.9002e+00
19	TAO130048	85.3407	85.9705	85.6371	1.4191e-01	1.9002e+00
20	TAO120224	85.4344	86.0651	85.7772	1.6422e-01	1.9002e+00
21	TAO130224	85.4499	86.0787	85.8204	1.5892e-01	1.9002e+00
22	TAO120312	85.4642	85.9902	85.7608	1.4829e-01	1.9002e+00
23	TAO130312	85.4014	85.9267	85.6348	1.3143e-01	1.9002e+00
24	TRT020000	85.7625	86.8150	86.2153	2.0543e-01	1.9002e+00
25	TRT070000	85.7257	86.5691	86.0441	1.7502e-01	1.9002e+00
26	TRT100000	85.7812	86.6206	86.2744	1.8871e-01	1.9002e+00
27	TRT120000	85.4812	86.3214	86.0252	1.6258e-01	1.9002e+00
28	TRT125000	85.6623	86.5001	86.0462	2.0152e-01	1.9002e+00
29	TRT130000	85.5673	86.1967	85.8469	1.6247e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6470	2.1094e-01	1.9011e+00
31	TAF050136	85.8696	86.4995	86.1533	1.4888e-01	1.9002e+00
32	TAF070136	86.0801	86.9184	86.5602	2.1265e-01	1.9002e+00
33	TAF080136	85.7095	86.3385	86.0309	1.4263e-01	1.9002e+00
34	TAF090136	83.7352	84.9963	84.3891	2.8028e-01	1.9001e+00
35	TAF100136	85.4561	86.2977	85.8957	1.5433e-01	1.9002e+00
36	TAF105136	85.4922	86.4328	86.0669	2.3233e-01	1.9002e+00
37	TAF110136	85.3278	86.2722	85.7499	1.7165e-01	1.9002e+00
38	TAF115136	85.9668	86.7018	86.3428	1.9791e-01	1.9002e+00
39	TAF120136	85.5796	86.2095	85.9931	1.5206e-01	1.9002e+00
40	TAF125136	85.6626	86.7087	86.1591	2.6515e-01	1.9002e+00
41	TAF130136	85.5597	86.3996	86.0322	1.7656e-01	1.9002e+00
42	TAF120048	85.9168	87.0784	86.3885	2.4707e-01	1.9002e+00
43	TAF130048	85.4881	86.3284	85.9608	1.9367e-01	1.9002e+00
44	TAF120224	85.6640	86.4000	86.0320	1.7676e-01	1.9002e+00
45	TAF130224	85.1362	85.9814	85.5358	2.1138e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.1287e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2062	1.0175e-01	1.9010e+00
48	TAI130138	85.5600	86.8211	86.2347	3.6834e-01	1.9002e+00
49	TAI130226	85.2035	85.9386	85.5252	1.8650e-01	1.9002e+00
50	TAI130314	85.5995	86.7567	86.2538	2.4997e-01	1.9002e+00
51	TAI130042	85.0814	85.9227	85.6218	1.9351e-01	1.9002e+00
52	TRR130090	85.1793	86.3339	85.8490	2.5260e-01	1.9002e+00
53	TSI000001	82.1153	82.7474	82.4546	1.5970e-01	1.9001e+00
54	TSI000002	75.2652	76.3231	75.6780	2.7128e-01	1.9000e+00
55	TSO000001	72.9677	73.8192	73.4591	1.8242e-01	1.9000e+00
56	TSO000002	80.6261	81.2594	80.9450	1.8767e-01	1.9001e+00
57	TAF020136	84.9702	85.6040	85.3275	1.8814e-01	1.9002e+00
58	TAF120312	85.1662	86.2165	85.8195	2.5300e-01	1.9002e+00
59	TAF130312	84.8513	85.6913	85.2778	1.6356e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4494	9.6655e-04	0.0000e+00
61	EMPTY	0.4590	0.4688	0.4647	2.1364e-03	0.0000e+00
62	EMPTY	0.4736	0.4834	0.4784	1.2041e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4950	2.3941e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3217	1.6028e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3580	2.3008e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3762	9.6655e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4099	1.1714e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5172	1.3381e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9053e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5736	2.4642e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5958	6.9053e-04	0.0000e+00
80	PAN020136	16.7247	18.9372	17.6586	4.7121e-01	8.7112e-01
81	PAN050136	30.0910	32.0747	31.0890	5.1419e-01	1.6818e+00
82	PAN070136	21.8835	23.2518	22.4862	3.5760e-01	8.7181e-01
83	PAN080136	10.8661	11.4765	11.1728	1.4824e-01	8.7045e-01
84	PAN090136	9.1951	9.6528	9.4346	1.0791e-01	8.7032e-01
85	PAN100136	11.4369	11.9710	11.6856	1.1719e-01	8.7049e-01
86	PAN105136	5.1419	5.5234	5.2884	8.4199e-02	8.7010e-01
87	PAN110136	5.6217	6.0031	5.8032	8.7043e-02	8.7012e-01
88	PAN115136	5.8637	6.2451	6.0178	8.9200e-02	8.7013e-01
89	PAN120136	3.5896	3.8948	3.7453	7.8534e-02	8.7005e-01
90	PAN125136	5.1477	5.5292	5.3247	9.3046e-02	8.7010e-01
91	PAN130136	5.5410	5.9225	5.7012	1.0019e-01	8.7012e-01
92	PAN120048	9.6381	10.3248	10.0272	1.2258e-01	8.7036e-01
93	PAN130048	11.6071	12.1411	11.9229	1.2711e-01	8.7051e-01
94	PAN120224	10.8647	11.4750	11.1775	1.3011e-01	8.7045e-01
95	PAN130224	12.6591	13.1168	12.9200	1.2340e-01	8.7060e-01
96	PAN120312	9.4724	10.0064	9.7073	1.1518e-01	8.7034e-01
97	PAN130312	11.5910	12.2014	11.9359	1.2826e-01	8.7051e-01
98	PAB000136	34.4849	34.8512	34.6919	9.4422e-02	5.8645e-01
99	PAB100136	30.7155	30.9443	30.8235	4.9597e-02	5.8510e-01
100	PAB125136	29.8043	29.9416	29.8666	4.7841e-02	5.8479e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	34.1718	35.0263	34.5551	1.8124e-01	7.5496e-01
102	PRV000001	26.5800	26.7021	26.6166	5.6508e-02	7.5295e-01
103	PSR000001	28.7327	28.9768	28.8572	3.0104e-02	7.5346e-01
104	PFM000001	38.7092	39.6248	39.1816	2.3857e-01	5.0950e-01
105	PAN000136	134.8913	142.6732	138.3245	1.9049e+00	4.9321e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4336	-9.8357	1.1660e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0011	2.0432e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0057	9.5112e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	8.6810e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0253	1.0447e-01	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0790	1.0617e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0204	9.6976e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0050	9.1354e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1233	1.1970e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1563	1.1885e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.4439	1.1031e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.2081	2.6267e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.1727	2.7899e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1867	3.3322e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.3073e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.7356e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0184	3.0501e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0144	2.8608e-03	0.0000e+00
128	IHT000001	-0.1390	0.4470	0.0290	1.0447e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0128	9.6655e-02	4.1000e+00
130	IHT000003	-0.1765	0.4094	0.0266	1.1133e-01	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0494	9.5357e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0219	1.0507e-01	4.1000e+00
133	IHT000006	-0.3418	0.2441	-0.0684	1.1161e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0729	1.1334e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0332	1.0507e-01	4.1000e+00
136	IHT000009	-0.1315	0.4545	0.0482	1.1049e-01	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0488	7.8918e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0006	7.7324e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0095	9.3043e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0671	7.2866e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	1.0320e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0312	8.2393e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0299	6.2265e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0760	1.9185e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0708	1.0507e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1031	9.0756e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	8.2393e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0436	7.8918e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0617	9.6976e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0679	8.7880e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0479	8.4997e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0535	7.5283e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0263	1.1838e-01	4.1000e+00

Test: May01_07 sum1 Date: Tue May 1 11:51:44 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.3718	0.0164	8.5454e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0872	1.0440e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0493	1.0559e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	6.8345e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	7.3716e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0440	1.0259e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00

Test: May01_07

sum2

Date: Tue May 1 11:51:44 1990

Page: 1

Velocity 1 = 15.9606 (ft/sec) (+/- 1.7897 %)
 Velocity 2 = 13.6773 (ft/sec) (+/- 1.7009 %)
 Pressure drop = 4.9674 (psi)
 Tsat in = 258.9785 (deg F) Tsat out = 250.3049 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 7840.4883 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 58.6693 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	75.0626	74.6544	1.8854e-01	1.9000e+00
1	TRF000002	74.6505	75.0738	74.8060	1.2799e-01	1.9000e+00
2	TFM000001	85.5775	86.3132	85.9333	1.9392e-01	1.9002e+00
3	TIN000001	85.3046	85.8310	85.5559	1.2497e-01	1.9002e+00
4	TRV000001	85.4096	86.1436	85.8398	1.8049e-01	1.9002e+00
5	TSR000001	86.4837	87.3222	86.9633	1.6434e-01	1.9002e+00
6	TAO020136	85.7904	86.5268	86.2133	2.1846e-01	1.9002e+00
7	TAO050136	85.6616	86.5003	86.0658	1.5882e-01	1.9002e+00
8	TAO070136	84.4072	85.2509	84.7967	1.8664e-01	1.9001e+00
9	TAO080136	85.5543	86.1822	85.8829	1.6715e-01	1.9002e+00
10	TAO090136	85.7303	86.5707	86.1097	2.1191e-01	1.9002e+00
11	TAO100136	85.4892	86.3299	85.8987	1.7058e-01	1.9002e+00
12	TAO105136	86.2934	86.8195	86.5575	1.5050e-01	1.9002e+00
13	TAO110136	84.1291	84.9679	84.6346	1.6399e-01	1.9001e+00
14	TAO115136	85.6409	86.5889	86.0901	2.2114e-01	1.9002e+00
15	TAO120136	85.4863	86.0103	85.7964	1.5853e-01	1.9002e+00
16	TAO125136	85.7715	86.4023	86.0723	1.6469e-01	1.9002e+00
17	TAO130136	85.3110	86.1459	85.7723	1.6100e-01	1.9002e+00
18	TAO120048	85.5096	86.2460	85.8961	1.6110e-01	1.9002e+00
19	TAO130048	85.3401	85.9705	85.6410	1.4387e-01	1.9002e+00
20	TAO120224	85.4344	86.1702	85.8056	1.8712e-01	1.9002e+00
21	TAO130224	85.4499	86.0793	85.8279	1.2835e-01	1.9002e+00
22	TAO120312	85.4642	86.3057	85.7497	1.8341e-01	1.9002e+00
23	TAO130312	85.2959	86.0321	85.6438	1.4419e-01	1.9002e+00
24	TRT020000	85.8678	86.7102	86.2202	1.9763e-01	1.9002e+00
25	TRT070000	85.7257	86.3583	86.0592	1.6443e-01	1.9002e+00
26	TRT100000	85.7807	86.6206	86.2482	1.7664e-01	1.9002e+00
27	TRT120000	85.6905	86.4268	86.0427	1.5839e-01	1.9002e+00
28	TRT125000	85.6618	86.2915	86.0605	1.9124e-01	1.9002e+00
29	TRT130000	85.5667	86.1973	85.8847	1.4782e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6338	2.3255e-01	1.9011e+00
31	TAF050136	85.7650	86.4995	86.1612	1.7962e-01	1.9002e+00
32	TAF070136	86.1850	86.9184	86.5636	1.8606e-01	1.9002e+00
33	TAF080136	85.6060	86.4439	86.0353	1.8050e-01	1.9002e+00
34	TAF090136	83.8403	84.9963	84.4645	2.6391e-01	1.9001e+00
35	TAF100136	85.5610	86.2977	85.8767	1.8604e-01	1.9002e+00
36	TAF105136	85.4922	86.4328	86.0659	2.4221e-01	1.9002e+00
37	TAF110136	85.3272	86.1673	85.7606	1.8011e-01	1.9002e+00
38	TAF115136	85.8620	86.9119	86.3868	1.9052e-01	1.9002e+00
39	TAF120136	85.6845	86.3149	85.9781	1.5746e-01	1.9002e+00
40	TAF125136	85.5589	86.8140	86.2309	2.8221e-01	1.9002e+00
41	TAF130136	85.7694	86.2948	86.0290	1.5477e-01	1.9002e+00
42	TAF120048	85.8119	86.9736	86.3570	2.5710e-01	1.9002e+00
43	TAF130048	85.5930	86.4338	85.9554	2.1017e-01	1.9002e+00
44	TAF120224	85.6640	86.4000	86.0610	2.0391e-01	1.9002e+00
45	TAF130224	85.0313	85.8755	85.5159	1.9370e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1100	1.8251e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	9.9332e-02	1.9010e+00
48	TAI130138	85.5600	86.9259	86.2313	3.2790e-01	1.9002e+00
49	TAI130226	85.0991	86.0430	85.5979	2.1581e-01	1.9002e+00
50	TAI130314	85.4938	86.7561	86.2049	2.9732e-01	1.9002e+00
51	TAI130042	85.1864	86.1323	85.6264	2.0666e-01	1.9002e+00
52	TRR130090	85.3885	86.2290	85.7793	2.2768e-01	1.9002e+00
53	TSI000001	82.1147	82.8531	82.4851	1.7878e-01	1.9001e+00
54	TSI000002	75.0538	76.1125	75.6390	2.6966e-01	1.9000e+00
55	TSO000001	73.0736	73.8192	73.4452	1.9578e-01	1.9000e+00
56	TSO000002	80.4149	81.2594	80.8977	1.9857e-01	1.9001e+00
57	TAF020136	84.9712	85.8153	85.3844	1.7343e-01	1.9002e+00
58	TAF120312	85.2711	86.2165	85.7707	2.5130e-01	1.9002e+00
59	TAF130312	84.9563	85.6907	85.3100	1.7371e-01	1.9002e+00
60	EMPTY	0.4443	0.4492	0.4491	6.9754e-04	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4640	6.9754e-04	0.0000e+00
62	EMPTY	0.4736	0.4834	0.4785	9.9670e-04	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4937	1.4934e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3213	1.9883e-03	0.0000e+00
65	EMPTY	0.3369	0.3467	0.3418	9.9670e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3570	1.6172e-03	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3857	0.3906	0.3905	6.9754e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4089	2.1781e-03	0.0000e+00
70	EMPTY	0.4199	0.4297	0.4248	9.9670e-04	0.0000e+00
71	EMPTY	0.4443	0.4541	0.4490	1.3951e-03	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4636	1.1827e-03	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4830	1.3508e-03	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5160	2.3135e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5316	1.6172e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5513	1.4934e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5723	1.9883e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5958	6.9754e-04	0.0000e+00
80	PAN020136	16.8010	18.5558	17.3911	3.7369e-01	8.7109e-01
81	PAN050136	30.0910	31.9221	31.1094	3.8069e-01	1.6818e+00
82	PAN070136	21.6546	22.9516	22.3366	3.3489e-01	8.7179e-01
83	PAN080136	10.8661	11.4002	11.1199	1.3066e-01	8.7044e-01
84	PAN090136	9.2714	9.6528	9.4286	9.1351e-02	8.7032e-01
85	PAN100136	11.5132	11.9710	11.6969	1.2254e-01	8.7049e-01
86	PAN105136	5.0656	5.4471	5.2525	9.3520e-02	8.7010e-01
87	PAN110136	5.6217	5.9268	5.7805	9.8294e-02	8.7012e-01
88	PAN115136	5.9400	6.3214	6.0894	8.6652e-02	8.7013e-01
89	PAN120136	3.4370	3.8948	3.6410	1.0492e-01	8.7005e-01
90	PAN125136	5.0714	5.4529	5.2848	8.9435e-02	8.7010e-01
91	PAN130136	5.4647	5.7699	5.6437	7.5577e-02	8.7011e-01
92	PAN120048	9.7144	10.1722	9.9885	1.2254e-01	8.7036e-01
93	PAN130048	11.6834	12.1411	11.8733	1.1975e-01	8.7051e-01
94	PAN120224	10.8647	11.3224	11.1294	1.0342e-01	8.7044e-01
95	PAN130224	12.6591	13.1168	12.8833	1.0723e-01	8.7060e-01
96	PAN120312	9.4724	9.8538	9.6888	1.0014e-01	8.7034e-01
97	PAN130312	11.6673	12.2014	11.9102	1.2230e-01	8.7051e-01
98	PAB000136	34.5765	34.8969	34.7138	8.4614e-02	5.8646e-01
99	PAB100136	30.8070	30.9443	30.8752	4.9552e-02	5.8511e-01
100	PAB125136	29.8501	29.9874	29.9258	4.6299e-02	5.8481e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	34.1718	34.7822	34.5405	1.4420e-01	7.5495e-01
102	PRV000001	26.5800	26.5800	26.5800	3.8542e-06	7.5294e-01
103	PSR000001	28.8547	28.9768	28.9046	6.0619e-02	7.5347e-01
104	PFM000001	38.7092	39.5332	39.1203	2.1963e-01	5.0948e-01
105	PAN000136	134.4335	140.3844	137.5258	1.4462e+00	4.9320e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6172e-03	0.0000e+00
108	EMPTY	-10.0000	-9.5947	-9.8686	9.8036e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0010	1.9883e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0012	8.2338e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0411	7.4477e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0088	9.9792e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.1010	1.0315e-01	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0113	9.2540e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0183	1.1248e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.1057	1.0847e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1395	1.1266e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.8785	9.7500e-01	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.1641	2.6600e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	0.0245	2.6329e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1861	2.8901e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.8602e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.5231e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	3.0104e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.5022e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	6.2908e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0136	7.9532e-02	4.1000e+00
130	IHT000003	-0.1763	0.2141	0.0427	1.0268e-01	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0378	8.4477e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0156	1.0409e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0787	9.3931e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0637	9.3931e-02	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0548	1.0625e-01	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0399	6.4688e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0369	7.3601e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0111	6.2908e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0245	9.2189e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0828	8.4477e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0519	7.3601e-02	4.1000e+00
142	IHT000015	-0.1953	0.3906	0.0319	1.0806e-01	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0298	7.4477e-02	4.1000e+00
144	IHT000017	-0.2479	0.3380	-0.0646	1.5133e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0445	1.0548e-01	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1239	9.2540e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0322	6.9053e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0547	6.9053e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0828	9.3931e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0529	9.0949e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0566	9.0949e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0521	6.8582e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0435	6.9053e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0380	3.9046e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0422	1.1161e-01	4.1000e+00

Test: May01_07

sum2

Date: Tue May 1 11:51:44 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	-0.0029	5.4032e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0696	9.8648e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0595	9.6150e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0193	6.8582e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0080	5.5804e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0415	1.0204e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0063	9.1482e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0120	6.1868e-02	4.1000e+00

Test: May01_07 dif Date: Tue May 1 11:51:44 1990 Page: 1

Velocity 1 = 0.012400 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.028900 (psi)

Tsat in = 0.037170 (deg F) Tsat out = 0.114807 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0004	0.0005
1	TRF000002	0.0159	0.0213
2	TFM000001	0.0092	0.0107
3	TIN000001	0.0050	0.0058
4	TRV000001	0.0044	0.0051
5	TSR000001	0.0886	0.1018
6	TAO020136	0.0421	0.0489
7	TAO050136	0.0003	0.0003
8	TAO070136	0.0078	0.0092
9	TAO080136	0.0003	0.0003
10	TAO090136	0.0302	0.0351
11	TAO100136	0.0086	0.0100
12	TAO105136	0.0347	0.0401
13	TAO110136	0.0080	0.0094
14	TAO115136	0.0132	0.0153
15	TAO120136	0.0146	0.0170
16	TAO125136	0.0129	0.0150
17	TAO130136	0.0113	0.0132
18	TAO120048	0.0111	0.0129
19	TAO130048	0.0039	0.0046
20	TAO120224	0.0284	0.0331
21	TAO130224	0.0075	0.0087
22	TAO120312	0.0111	0.0129
23	TAO130312	0.0090	0.0105
24	TRT020000	0.0049	0.0057
25	TRT070000	0.0151	0.0175
26	TRT100000	0.0262	0.0304
27	TRT120000	0.0175	0.0203
28	TRT125000	0.0143	0.0166
29	TRT130000	0.0378	0.0440
30	EMPTY	0.0132	0.0333
31	TAF050136	0.0079	0.0092
32	TAF070136	0.0034	0.0039
33	TAF080136	0.0044	0.0051
34	TAF090136	0.0754	0.0893
35	TAF100136	0.0190	0.0221
36	TAF105136	0.0010	0.0012
37	TAF110136	0.0107	0.0125
38	TAF115136	0.0440	0.0510
39	TAF120136	0.0150	0.0174
40	TAF125136	0.0718	0.0833
41	TAF130136	0.0032	0.0037
42	TAF120048	0.0315	0.0365
43	TAF130048	0.0054	0.0063
44	TAF120224	0.0290	0.0337
45	TAF130224	0.0199	0.0233

#	Name	Abs Diff	%Diff
46	EMPTY	0.0206	0.0541
47	EMPTY	0.0551	0.1405
48	TAI130138	0.0034	0.0039
49	TAI130226	0.0727	0.0850
50	TAI130314	0.0489	0.0567
51	TAI130042	0.0046	0.0054
52	TRR130090	0.0697	0.0812
53	TSI000001	0.0305	0.0370
54	TSI000002	0.0390	0.0515
55	TSO000001	0.0139	0.0189
56	TSO000002	0.0473	0.0584
57	TAF020136	0.0569	0.0667
58	TAF120312	0.0488	0.0569
59	TAF130312	0.0322	0.0378
60	EMPTY	0.0003	0.0668
61	EMPTY	0.0007	0.1506
62	EMPTY	0.0001	0.0209
63	EMPTY	0.0013	0.2626
64	EMPTY	0.0004	0.1243
65	EMPTY	0.0001	0.0292
66	EMPTY	0.0010	0.2793
67	EMPTY	0.0002	0.0532
68	EMPTY	0.0002	0.0512
69	EMPTY	0.0010	0.2440
70	EMPTY	0.0002	0.0471
71	EMPTY	0.0002	0.0445
72	EMPTY	0.0003	0.0647
73	EMPTY	0.0003	0.0621
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0012	0.2320
76	EMPTY	0.0005	0.0940
77	EMPTY	0.0004	0.0725
78	EMPTY	0.0013	0.2266
79	EMPTY	0.0000	0.0000
80	PAN020136	0.2675	1.5148
81	PAN050136	0.0204	0.0656
82	PAN070136	0.1496	0.6653
83	PAN080136	0.0529	0.4735
84	PAN090136	0.0060	0.0636
85	PAN100136	0.0113	0.0967
86	PAN105136	0.0359	0.6788
87	PAN110136	0.0227	0.3912
88	PAN115136	0.0716	1.1898
89	PAN120136	0.1043	2.7848
90	PAN125136	0.0399	0.7493
91	PAN130136	0.0575	1.0086
92	PAN120048	0.0387	0.3860
93	PAN130048	0.0496	0.4160
94	PAN120224	0.0481	0.4303
95	PAN130224	0.0367	0.2841
96	PAN120312	0.0185	0.1906
97	PAN130312	0.0257	0.2153
98	PAB000136	0.0219	0.0631
99	PAB100136	0.0517	0.1677
100	PAB125136	0.0592	0.1982

Test: May01_07

dif

Date: Tue May 1 11:51:44 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0146	0.0422
102	PRV000001	0.0366	0.1375
103	PSR000001	0.0474	0.1643
104	PFM000001	0.0613	0.1564
105	PAN000136	0.7987	0.5774
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0329	0.3345
109	EMPTY	0.0001	2.1739
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	9.0909
112	VPW000001	0.0069	121.0526
113	VPW000002	0.0116	39.3220
114	VPW000003	0.0165	65.2174
115	VPW000004	0.0220	27.8481
116	VPW000005	0.0091	44.6078
117	VPW000006	0.0233	466.0000
118	IPW000001	1.0176	90.5902
119	IPW000002	0.0168	10.7486
120	IPW000003	0.4346	97.9049
121	IPW000004	0.0440	21.1437
122	IPW000005	0.1972	114.1865
123	IPW000006	0.0006	0.3214
124	EMPTY	0.0017	7.7626
125	EMPTY	0.0005	3.6232
126	EMPTY	0.0014	7.6087
127	EMPTY	0.0010	6.9444
128	IHT000001	0.0234	80.6897
129	IHT000002	0.0008	6.2500
130	IHT000003	0.0161	60.5263
131	IHT000004	0.0116	23.4818
132	IHT000005	0.0063	28.7671
133	IHT000006	0.0103	15.0585
134	IHT000007	0.0092	12.6200
135	IHT000008	0.0216	65.0602
136	IHT000009	0.0083	17.2199
137	IHT000010	0.0119	24.3852
138	IHT000011	0.0117	1949.9998
139	IHT000012	0.0150	157.8947
140	IHT000013	0.0157	23.3979
141	IHT000014	0.0276	34.7170
142	IHT000015	0.0007	2.2436
143	IHT000016	0.0001	0.3344
144	IHT000017	0.0114	15.0000
145	IHT000018	0.0263	37.1469
146	IHT000019	0.0208	20.1746
147	IHT000020	0.0033	11.4187
148	IHT000021	0.0111	25.4587
149	IHT000022	0.0142	14.6392
150	IHT000023	0.0105	24.7642
151	IHT000024	0.0051	8.2658
152	IHT000025	0.0158	23.2695
153	IHT000026	0.0044	9.1858
154	IHT000027	0.0155	28.9720
155	IHT000028	0.0159	60.4563

Test: May01_07 dif Date: Tue May 1 11:51:44 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0193	117.6829
157	IHT000030	0.0176	20.1835
158	IHT000031	0.0102	20.6897
159	IHT000032	0.0080	70.7965
160	IHT000033	0.0119	305.1282
161	IHT000034	0.0025	5.6818
162	IHT000035	0.0265	80.7927
163	IHT000036	0.0075	38.4615

Test: May01_08

sum1

Date: Tue May 1 11:57:34 1990

Page: 1

Velocity 1 = 14.0615 (ft/sec) (+/- 1.8640 %)
Velocity 2 = 13.6775 (ft/sec) (+/- 1.7009 %)
Pressure drop = 2.8590 (psi)
Tsats in = 254.5886 (deg F) Tsats out = 249.3634 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 47090.8477 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3198.8848 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.6881	1.8523e-01	1.9000e+00
1	TRF000002	74.6505	75.0738	74.8706	1.4788e-01	1.9000e+00
2	TFM000001	85.6823	86.4180	86.0899	1.9036e-01	1.9002e+00
3	TIN000001	85.4095	86.0413	85.7213	1.7401e-01	1.9002e+00
4	TRV000001	85.5151	86.4557	85.9757	2.0077e-01	1.9002e+00
5	TSR000001	86.1713	86.9060	86.5280	1.5574e-01	1.9002e+00
6	TAO020136	85.8952	86.9473	86.3415	2.2940e-01	1.9002e+00
7	TAO050136	85.8704	86.7085	86.2146	1.8468e-01	1.9002e+00
8	TAO070136	84.3016	85.2509	84.8415	2.2604e-01	1.9001e+00
9	TAO080136	85.5543	86.2876	86.0144	1.8706e-01	1.9002e+00
10	TAO090136	85.8352	86.6749	86.2595	1.8724e-01	1.9002e+00
11	TAO100136	85.8039	86.3299	86.0899	1.5460e-01	1.9002e+00
12	TAO105136	86.1885	87.3447	86.6804	2.2118e-01	1.9002e+00
13	TAO110136	84.2347	85.1784	84.6750	1.9179e-01	1.9001e+00
14	TAO115136	85.7463	86.7991	86.2728	2.3211e-01	1.9002e+00
15	TAO120136	85.5912	86.3239	85.9260	1.6680e-01	1.9002e+00
16	TAO125136	85.7727	86.7173	86.2132	1.9095e-01	1.9002e+00
17	TAO130136	85.4165	86.2513	85.8963	1.7172e-01	1.9002e+00
18	TAO120048	85.6150	86.3508	86.0563	1.5307e-01	1.9002e+00
19	TAO130048	85.4456	86.1808	85.8026	1.7993e-01	1.9002e+00
20	TAO120224	85.6445	86.2750	85.9263	1.7179e-01	1.9002e+00
21	TAO130224	85.5581	86.7030	85.9520	2.0398e-01	1.9002e+00
22	TAO120312	85.4642	86.2005	85.9016	1.7307e-01	1.9002e+00
23	TAO130312	85.6109	86.1370	85.8298	1.3575e-01	1.9002e+00
24	TRT020000	85.8679	86.7102	86.3394	1.8321e-01	1.9002e+00
25	TRT070000	85.8311	86.5697	86.1770	1.6069e-01	1.9002e+00
26	TRT100000	85.9915	87.0401	86.4400	2.3026e-01	1.9002e+00
27	TRT120000	85.9009	86.5317	86.1868	1.6853e-01	1.9002e+00
28	TRT125000	85.7672	86.5001	86.2073	1.8682e-01	1.9002e+00
29	TRT130000	85.6722	86.3027	85.9958	1.7727e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6699	2.0759e-01	1.9011e+00
31	TAF050136	85.8699	86.7088	86.3356	1.8629e-01	1.9002e+00
32	TAF070136	86.2898	87.1285	86.6670	2.2168e-01	1.9002e+00
33	TAF080136	85.9193	86.5488	86.1876	1.6152e-01	1.9002e+00
34	TAF090136	83.9453	85.1013	84.5676	3.0006e-01	1.9001e+00
35	TAF100136	85.5610	86.4031	86.0071	1.6947e-01	1.9002e+00
36	TAF105136	85.5977	86.6430	86.1445	2.5467e-01	1.9002e+00
37	TAF110136	85.6422	86.1683	85.8820	1.4554e-01	1.9002e+00
38	TAF115136	86.0717	87.0167	86.5295	2.3584e-01	1.9002e+00
39	TAF120136	85.7899	86.4198	86.1210	1.4145e-01	1.9002e+00
40	TAF125136	85.7675	86.9188	86.3200	2.6695e-01	1.9002e+00
41	TAF130136	85.7694	86.3996	86.1266	1.5881e-01	1.9002e+00
42	TAF120048	86.1284	86.8683	86.5552	2.1949e-01	1.9002e+00
43	TAF130048	85.8029	86.4338	86.1308	1.8217e-01	1.9002e+00
44	TAF120224	85.7689	86.4000	86.1392	1.8547e-01	1.9002e+00
45	TAF130224	85.2428	86.1917	85.6560	2.1181e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	1.8441e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1602	7.2025e-02	1.9010e+00
48	TAI130138	85.7701	86.9262	86.3040	3.1469e-01	1.9002e+00
49	TAI130226	85.2046	86.1479	85.6824	1.8744e-01	1.9002e+00
50	TAI130314	85.8093	87.0724	86.4368	3.2381e-01	1.9002e+00
51	TAI130042	85.2913	86.2377	85.7795	2.3251e-01	1.9002e+00
52	TRR130090	85.3898	86.6488	85.9603	2.8451e-01	1.9002e+00
53	TSI000001	81.9051	82.6423	82.2802	1.7181e-01	1.9001e+00
54	TSI000002	73.6790	74.7381	74.1791	2.5048e-01	1.9000e+00
55	TSO000001	70.6172	71.3648	70.9505	1.9833e-01	1.9000e+00
56	TSO000002	79.6769	80.5215	80.0488	2.0595e-01	1.9001e+00
57	TAF020136	85.0752	85.9202	85.5069	2.0090e-01	1.9002e+00
58	TAF120312	85.3766	86.5312	85.9601	2.9174e-01	1.9002e+00
59	TAF130312	84.9563	85.6922	85.4435	1.7845e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4519	2.4583e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4795	1.9730e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4969	2.1065e-03	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3222	1.2041e-03	0.0000e+00
65	EMPTY	0.3369	0.3467	0.3418	9.8648e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
67	EMPTY	0.3711	0.3760	0.3758	9.6655e-04	0.0000e+00
68	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
69	EMPTY	0.4053	0.4150	0.4098	1.6624e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4981	6.9053e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5170	1.6028e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9053e-04	0.0000e+00
78	EMPTY	0.5713	0.5859	0.5727	2.7971e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5959	9.6655e-04	0.0000e+00
80	PAN020136	9.2479	11.3078	9.9757	5.0094e-01	8.7036e-01
81	PAN050136	15.9004	18.1892	17.2676	5.2312e-01	1.6806e+00
82	PAN070136	12.4230	14.2541	12.9845	3.8865e-01	8.7061e-01
83	PAN080136	5.9070	6.5174	6.1527	1.5589e-01	8.7014e-01
84	PAN090136	5.0752	5.5330	5.2675	1.1033e-01	8.7010e-01
85	PAN100136	6.6304	7.1644	6.8959	1.3721e-01	8.7017e-01
86	PAN105136	2.7768	3.1583	2.9736	8.0225e-02	8.7003e-01
87	PAN110136	3.1802	3.4854	3.3130	7.9810e-02	8.7004e-01
88	PAN115136	3.2697	3.6511	3.4802	8.7953e-02	8.7004e-01
89	PAN120136	1.6060	1.9112	1.7189	8.1910e-02	8.7001e-01
90	PAN125136	2.8589	3.2404	3.0359	9.1760e-02	8.7003e-01
91	PAN130136	3.0233	3.4048	3.2400	1.0032e-01	8.7004e-01
92	PAN120048	5.5183	5.9760	5.7288	1.0404e-01	8.7012e-01
93	PAN130048	6.8005	7.3346	7.0264	1.3345e-01	8.7018e-01
94	PAN120224	6.2107	6.6685	6.4289	1.0900e-01	8.7015e-01
95	PAN130224	7.5474	7.9289	7.7503	9.3262e-02	8.7022e-01
96	PAN120312	5.0473	5.5051	5.2808	1.0944e-01	8.7010e-01
97	PAN130312	6.8608	7.3186	7.0973	1.0707e-01	8.7018e-01
98	PAB000136	31.9672	32.4250	32.2099	1.0014e-01	5.8556e-01
99	PAB100136	29.8457	30.0746	29.9849	5.0621e-02	5.8482e-01
100	PAB125136	29.3465	29.5296	29.4436	4.5907e-02	5.8465e-01

Test: May01_08

sum1

Date: Tue May 1 11:57:34 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.4863	32.4628	32.0088	1.8296e-01	7.5426e-01
102	PRV000001	26.5800	26.7021	26.6288	6.0409e-02	7.5295e-01
103	PSR000001	28.7327	28.8547	28.7424	3.3453e-02	7.5343e-01
104	PFM000001	29.9202	30.9273	30.3157	2.4359e-01	5.0571e-01
105	PAN000136	74.4665	83.1640	79.1540	1.9145e+00	4.9240e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.5117	-9.8626	1.2984e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0057	9.5112e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0490	9.2456e-02	8.1000e-01
114	VPW000003	-0.2479	0.3380	-0.0370	9.5357e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0986	1.0358e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0126	1.0014e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0011	9.6735e-02	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.5528	1.2119e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.2340	1.1754e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.0149	1.1982e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2862	2.1635e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3876	2.3673e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.1281	3.0708e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.5568e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0134	2.1635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0172	3.1567e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	2.9611e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0251	9.1354e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0128	8.8233e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0383	8.1347e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0338	6.8345e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1074	8.8233e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0533	9.6655e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0482	8.6810e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0684	9.8648e-02	4.1000e+00
138	IHT000011	-0.2104	0.3756	0.0123	8.8321e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0134	9.0756e-02	4.1000e+00
140	IHT000013	-0.2742	0.5071	-0.0554	1.0168e-01	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	7.7324e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT000017	-0.2479	0.1427	-0.0760	1.4573e-01	4.1000e+00
145	IHT000018	-0.1841	0.0113	-0.0512	9.2034e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0874	1.0447e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0054	9.6976e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0279	8.8585e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0970	1.0507e-01	4.1000e+00
150	IHT000023	-0.3080	0.0826	-0.0345	1.0440e-01	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0852	9.1354e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0718	9.9902e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0323	7.8918e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0418	8.2864e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	1.2731e-01	4.1000e+00

Test: May01_08

sum1

Date: Tue May 1 11:57:34 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0046	7.5283e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0676	9.8648e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0454	1.1975e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	8.7880e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0078	1.0410e-01	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0401	9.3461e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0250	9.2034e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	7.1136e-02	4.1000e+00

Test: May01_08

sum2

Date: Tue May 1 11:57:34 1990

Page: 1

Velocity 1 = 14.0530 (ft/sec) (+/- 1.8645 %)
Velocity 2 = 13.6775 (ft/sec) (+/- 1.7009 %)
Pressure drop = 2.8733 (psi)
Tsat in = 254.5484 (deg F) Tsat out = 249.3103 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 8155.5962 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 41134.0000 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.7022	1.6938e-01	1.9000e+00
1	TRF000002	74.6505	75.0738	74.8794	1.6070e-01	1.9000e+00
2	TFM000001	85.5781	86.5222	86.0833	1.9826e-01	1.9002e+00
3	TIN000001	85.5150	86.0415	85.7578	1.4913e-01	1.9002e+00
4	TRV000001	85.5145	86.4575	85.9681	2.4884e-01	1.9002e+00
5	TSR000001	86.1713	87.0095	86.5162	1.8895e-01	1.9002e+00
6	TAO020136	85.8952	86.8419	86.3592	2.3113e-01	1.9002e+00
7	TAO050136	85.8704	86.6052	86.2323	2.0189e-01	1.9002e+00
8	TAO070136	84.4066	85.3558	84.8568	1.9578e-01	1.9001e+00
9	TAO080136	85.7626	86.3925	86.0452	1.6875e-01	1.9002e+00
10	TAO090136	85.8358	86.5702	86.2297	1.8743e-01	1.9002e+00
11	TAO100136	85.6990	86.4348	86.0914	1.8037e-01	1.9002e+00
12	TAO105136	86.0831	87.2398	86.6690	2.3713e-01	1.9002e+00
13	TAO110136	84.2347	85.0734	84.6947	1.8764e-01	1.9001e+00
14	TAO115136	85.9561	86.6937	86.2964	2.2048e-01	1.9002e+00
15	TAO120136	85.5918	86.3233	85.9584	1.7650e-01	1.9002e+00
16	TAO125136	85.7727	86.6125	86.1837	1.9384e-01	1.9002e+00
17	TAO130136	85.6234	86.2508	85.8999	1.5214e-01	1.9002e+00
18	TAO120048	85.7199	86.5605	86.0503	1.8932e-01	1.9002e+00
19	TAO130048	85.4456	86.0760	85.7822	1.7266e-01	1.9002e+00
20	TAO120224	85.4344	86.2750	85.9214	1.6714e-01	1.9002e+00
21	TAO130224	85.6581	86.3923	85.9560	1.6759e-01	1.9002e+00
22	TAO120312	85.5691	86.4106	85.9127	1.6728e-01	1.9002e+00
23	TAO130312	85.5063	86.1370	85.8022	1.6559e-01	1.9002e+00
24	TRT020000	85.9728	86.9204	86.3834	2.3753e-01	1.9002e+00
25	TRT070000	85.8306	86.6745	86.2142	1.9564e-01	1.9002e+00
26	TRT100000	85.9915	86.7255	86.4236	1.7079e-01	1.9002e+00
27	TRT120000	85.9014	86.4263	86.2183	1.4302e-01	1.9002e+00
28	TRT125000	85.8721	86.6049	86.2227	2.0653e-01	1.9002e+00
29	TRT130000	85.6722	86.3021	85.9960	1.8903e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6338	2.3256e-01	1.9011e+00
31	TAF050136	85.9744	86.6043	86.3024	1.6544e-01	1.9002e+00
32	TAF070136	86.2898	87.2320	86.7515	2.3398e-01	1.9002e+00
33	TAF080136	85.8144	86.5488	86.2017	1.9149e-01	1.9002e+00
34	TAF090136	83.9453	85.1013	84.6103	2.7402e-01	1.9001e+00
35	TAF100136	85.5610	86.5075	86.0270	2.2520e-01	1.9002e+00
36	TAF105136	85.5971	86.6430	86.1727	2.5774e-01	1.9002e+00
37	TAF110136	85.5382	86.2722	85.9105	1.9037e-01	1.9002e+00
38	TAF115136	86.1766	86.9114	86.5324	2.1929e-01	1.9002e+00
39	TAF120136	85.7894	86.4198	86.1236	1.4805e-01	1.9002e+00
40	TAF125136	85.6643	86.9165	86.3122	2.8994e-01	1.9002e+00
41	TAF130136	85.8749	86.5050	86.1575	1.4881e-01	1.9002e+00
42	TAF120048	86.0228	87.0784	86.4991	2.1122e-01	1.9002e+00
43	TAF130048	85.6980	86.4333	86.1311	1.8398e-01	1.9002e+00
44	TAF120224	85.7694	86.7149	86.1939	2.0792e-01	1.9002e+00
45	TAF130224	85.1362	86.0863	85.6536	1.9526e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1147	1.9978e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1511	7.3969e-02	1.9010e+00
48	TAI130138	85.6649	87.0307	86.3471	3.5248e-01	1.9002e+00
49	TAI130226	85.2040	86.1479	85.7178	2.2887e-01	1.9002e+00
50	TAI130314	85.9148	86.8621	86.4281	2.7302e-01	1.9002e+00
51	TAI130042	85.5016	86.1328	85.7980	1.7116e-01	1.9002e+00
52	TRR130090	85.3892	86.4380	85.9463	2.5892e-01	1.9002e+00
53	TSI000001	81.9051	82.6423	82.2793	1.7610e-01	1.9001e+00
54	TSI000002	73.5730	74.6330	74.1117	2.7324e-01	1.9000e+00
55	TSO000001	70.5102	71.2573	70.8962	1.7528e-01	1.9000e+00
56	TSO000002	79.6770	80.6274	80.0500	2.0571e-01	1.9001e+00
57	TAF020136	85.0767	86.0256	85.5264	1.9097e-01	1.9002e+00
58	TAF120312	85.3766	86.5317	85.9635	2.6242e-01	1.9002e+00
59	TAF130312	85.0612	85.9016	85.4556	1.9469e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4517	2.4662e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4671	2.3483e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4805	2.4247e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4975	1.4934e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3222	6.9754e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9754e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3574	1.9883e-03	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4249	6.9754e-04	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4491	6.9754e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9754e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4835	6.9754e-04	0.0000e+00
74	EMPTY	0.4932	0.5029	0.4980	9.9670e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5175	6.9754e-04	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5743	2.4037e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5959	9.7615e-04	0.0000e+00
80	PAN020136	9.3242	11.6130	10.0607	5.0284e-01	8.7036e-01
81	PAN050136	16.5107	18.3418	17.4356	3.9693e-01	1.6806e+00
82	PAN070136	12.3467	13.9489	13.0365	3.6121e-01	8.7061e-01
83	PAN080136	5.6781	6.6700	6.1904	1.7131e-01	8.7014e-01
84	PAN090136	4.9226	5.5330	5.2729	1.2055e-01	8.7010e-01
85	PAN100136	6.6304	7.0881	6.9356	1.1550e-01	8.7017e-01
86	PAN105136	2.8531	3.2346	2.9917	9.4311e-02	8.7003e-01
87	PAN110136	3.1802	3.4854	3.3344	9.4074e-02	8.7004e-01
88	PAN115136	3.2697	3.5748	3.4612	8.4042e-02	8.7004e-01
89	PAN120136	1.6060	1.9112	1.7461	8.2916e-02	8.7001e-01
90	PAN125136	2.8589	3.2404	3.0520	8.6852e-02	8.7003e-01
91	PAN130136	3.0233	3.4048	3.2288	9.4990e-02	8.7004e-01
92	PAN120048	5.5946	5.9760	5.7471	1.0093e-01	8.7012e-01
93	PAN130048	6.8005	7.2583	7.0683	1.1562e-01	8.7018e-01
94	PAN120224	6.2107	6.5922	6.4256	1.1724e-01	8.7015e-01
95	PAN130224	7.4711	8.0051	7.7436	1.1654e-01	8.7022e-01
96	PAN120312	5.0473	5.5051	5.2933	1.1577e-01	8.7010e-01
97	PAN130312	6.9371	7.2423	7.0804	8.6194e-02	8.7018e-01
98	PAB000136	31.9672	32.3792	32.1877	1.0136e-01	5.8556e-01
99	PAB100136	29.8457	29.9830	29.9447	3.7779e-02	5.8481e-01
100	PAB125136	29.3465	29.4839	29.4166	4.1894e-02	5.8464e-01

Test: May01_08

sum2

Date: Tue May 1 11:57:34 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.4863	32.4628	31.9970	1.9726e-01	7.5425e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7439e-02	7.5296e-01
103	PSR000001	28.6106	28.7327	28.7302	1.7439e-02	7.5343e-01
104	PFM000001	29.9202	30.6526	30.2789	1.8485e-01	5.0570e-01
105	PAN000136	75.3820	84.0795	79.5486	1.9087e+00	4.9240e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-9.3115	-9.7763	1.9192e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0044	1.7954e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0004	1.3508e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0028	9.3759e-02	8.1000e-01
113	VPW000002	-0.2404	0.3455	-0.0172	9.7656e-02	8.1000e-01
114	VPW000003	-0.2479	0.3380	0.0152	1.0955e-01	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0851	1.0594e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0193	1.0548e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0096	8.6187e-02	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.2611	9.8444e-01	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.2590	1.1048e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.1562	1.2471e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.2039	2.6370e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3242	2.4659e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	0.0032	3.1615e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.5824e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.8191e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.7293e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0146	3.5937e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0484	7.9328e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0215	1.0188e-01	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0307	8.3705e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0378	8.4477e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0236	9.7656e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0668	1.0486e-01	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0797	8.7123e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0389	9.8153e-02	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0439	5.9734e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0329	8.7680e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	5.6382e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0364	9.9629e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	6.8582e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0638	9.7656e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0359	8.6187e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0179	5.4032e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0765	1.8543e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0366	1.1644e-01	4.1000e+00
146	IHT000019	-0.4507	-0.0601	-0.1278	1.0204e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0282	9.2189e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0428	8.8965e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.1147	1.0640e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0369	9.6150e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0646	9.5812e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0760	7.8092e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0514	7.1817e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0420	6.1868e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0223	9.3412e-02	4.1000e+00

Test: May01_08 sum2 Date: Tue May 1 11:57:34 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0051	7.5986e-02	4.1000e+00
157	IHT000030	-0.3606	0.2253	-0.0776	1.1319e-01	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0276	9.8153e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0272	7.8092e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0040	6.2908e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0494	1.1146e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0342	1.0315e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0438	8.2338e-02	4.1000e+00

Test: May01_08 dif Date: Tue May 1 11:57:34 1990 Page: 1

Velocity 1 = 0.008499 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.014300 (psi)

Tsat in = 0.040192 (deg F) Tsat out = 0.053101 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0141	0.0189
1	TRF000002	0.0088	0.0118
2	TFM000001	0.0066	0.0077
3	TIN000001	0.0365	0.0426
4	TRV000001	0.0076	0.0088
5	TSR000001	0.0118	0.0136
6	TAO020136	0.0177	0.0205
7	TAO050136	0.0177	0.0205
8	TAO070136	0.0153	0.0180
9	TAO080136	0.0308	0.0358
10	TAO090136	0.0298	0.0345
11	TAO100136	0.0015	0.0017
12	TAO105136	0.0114	0.0131
13	TAO110136	0.0197	0.0233
14	TAO115136	0.0236	0.0274
15	TAO120136	0.0324	0.0377
16	TAO125136	0.0295	0.0342
17	TAO130136	0.0036	0.0042
18	TAO120048	0.0060	0.0070
19	TAO130048	0.0204	0.0238
20	TAO120224	0.0049	0.0057
21	TAO130224	0.0040	0.0047
22	TAO120312	0.0111	0.0129
23	TAO130312	0.0276	0.0322
24	TRT020000	0.0440	0.0510
25	TRT070000	0.0372	0.0432
26	TRT100000	0.0164	0.0190
27	TRT120000	0.0315	0.0366
28	TRT125000	0.0154	0.0179
29	TRT130000	0.0002	0.0002
30	EMPTY	0.0361	0.0910
31	TAF050136	0.0332	0.0385
32	TAF070136	0.0845	0.0975
33	TAF080136	0.0141	0.0164
34	TAF090136	0.0427	0.0505
35	TAF100136	0.0199	0.0231
36	TAF105136	0.0282	0.0327
37	TAF110136	0.0285	0.0332
38	TAF115136	0.0029	0.0034
39	TAF120136	0.0026	0.0030
40	TAF125136	0.0078	0.0090
41	TAF130136	0.0309	0.0359
42	TAF120048	0.0561	0.0648
43	TAF130048	0.0003	0.0004
44	TAF120224	0.0547	0.0635
45	TAF130224	0.0024	0.0028

#	Name	Abs Diff	%Diff
46	EMPTY	0.0345	0.0906
47	EMPTY	0.0091	0.0232
48	TAI130138	0.0431	0.0499
49	TAI130226	0.0354	0.0413
50	TAI130314	0.0087	0.0101
51	TAI130042	0.0185	0.0216
52	TRR130090	0.0140	0.0163
53	TSI000001	0.0009	0.0011
54	TSI000002	0.0674	0.0909
55	TSO000001	0.0543	0.0765
56	TSO000002	0.0012	0.0015
57	TAF020136	0.0195	0.0228
58	TAF120312	0.0034	0.0040
59	TAF130312	0.0121	0.0142
60	EMPTY	0.0002	0.0443
61	EMPTY	0.0009	0.1931
62	EMPTY	0.0010	0.2086
63	EMPTY	0.0006	0.1208
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0001	0.0293
66	EMPTY	0.0003	0.0840
67	EMPTY	0.0002	0.0532
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0004	0.0976
70	EMPTY	0.0001	0.0235
71	EMPTY	0.0001	0.0223
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0002	0.0414
74	EMPTY	0.0001	0.0201
75	EMPTY	0.0005	0.0967
76	EMPTY	0.0001	0.0188
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0016	0.2794
79	EMPTY	0.0000	0.0000
80	PAN020136	0.0850	0.8521
81	PAN050136	0.1680	0.9729
82	PAN070136	0.0520	0.4005
83	PAN080136	0.0377	0.6127
84	PAN090136	0.0054	0.1025
85	PAN100136	0.0397	0.5757
86	PAN105136	0.0181	0.6087
87	PAN110136	0.0214	0.6459
88	PAN115136	0.0190	0.5459
89	PAN120136	0.0272	1.5824
90	PAN125136	0.0161	0.5303
91	PAN130136	0.0112	0.3457
92	PAN120048	0.0183	0.3194
93	PAN130048	0.0419	0.5963
94	PAN120224	0.0033	0.0513
95	PAN130224	0.0067	0.0864
96	PAN120312	0.0125	0.2367
97	PAN130312	0.0169	0.2381
98	PAB000136	0.0222	0.0689
99	PAB100136	0.0402	0.1341
100	PAB125136	0.0270	0.0917

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100

Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

2 of 11

Test: May01_08

dif

Date: Tue May 1 11:57:34 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0118	0.0369
102	PRV000001	0.0708	0.2659
103	PSR000001	0.0122	0.0424
104	PFM000001	0.0368	0.1214
105	PAN000136	0.3946	0.4985
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	2.0000
108	EMPTY	0.0863	0.8750
109	EMPTY	0.0005	12.8205
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0029	50.8772
113	VPW000002	0.0318	64.8980
114	VPW000003	0.0522	141.0811
115	VPW000004	0.0135	13.6917
116	VPW000005	0.0067	53.1746
117	VPW000006	0.0085	772.7273
118	IPW000001	0.2917	18.7854
119	IPW000002	0.4930	210.6838
120	IPW000003	0.1711	1148.3221
121	IPW000004	0.0823	28.7561
122	IPW000005	0.0634	16.3571
123	IPW000006	0.1313	102.4980
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0012	8.9552
126	EMPTY	0.0002	1.1628
127	EMPTY	0.0007	4.5752
128	IHT000001	0.0233	92.8287
129	IHT000002	0.0087	67.9688
130	IHT000003	0.0076	19.8433
131	IHT000004	0.0040	11.8343
132	IHT000005	0.0212	883.3333
133	IHT000006	0.0406	37.8026
134	IHT000007	0.0264	49.5310
135	IHT000008	0.0174	80.9302
136	IHT000009	0.0043	8.9212
137	IHT000010	0.0355	51.9006
138	IHT000011	0.0273	221.9512
139	IHT000012	0.0230	171.6418
140	IHT000013	0.0155	27.9783
141	IHT000014	0.0157	19.7484
142	IHT000015	0.0164	84.1026
143	IHT000016	0.0042	19.0045
144	IHT000017	0.0005	0.6579
145	IHT000018	0.0146	28.5156
146	IHT000019	0.0404	46.2243
147	IHT000020	0.0228	422.2222
148	IHT000021	0.0149	53.4050
149	IHT000022	0.0177	18.2474
150	IHT000023	0.0024	6.9565
151	IHT000024	0.0206	24.1784
152	IHT000025	0.0042	5.8496
153	IHT000026	0.0191	59.1331
154	IHT000027	0.0002	0.4785
155	IHT000028	0.0157	41.3158

Test: May01_08

dif

Date: Tue May 1 11:57:34 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0005	10.8696
157	IHT000030	0.0100	14.7929
158	IHT000031	0.0178	39.2071
159	IHT000032	0.0237	677.1429
160	IHT000033	0.0118	151.2821
161	IHT000034	0.0093	23.1920
162	IHT000035	0.0092	36.8000
163	IHT000036	0.0243	124.6154

Velocity 1 = 12.1175 (ft/sec) (+/- 2.0082 %)
 Velocity 2 = 12.3975 (ft/sec) (+/- 1.7149 %)
 Pressure drop = 0.9827 (psi)
 Tsat in = 250.7205 (deg F) Tsat out = 248.8373 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 1755.7448 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 9764.0596 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.8030	2.0297e-01	1.9000e+00
1	TRF000002	74.6505	75.0738	74.9510	1.1385e-01	1.9000e+00
2	TFM000001	85.8927	86.5222	86.1825	1.6760e-01	1.9002e+00
3	TIN000001	85.6201	86.2518	85.9150	1.3781e-01	1.9002e+00
4	TRV000001	85.7237	86.3539	86.0809	1.7590e-01	1.9002e+00
5	TSR000001	86.2762	86.8007	86.5287	1.4078e-01	1.9002e+00
6	TAO020136	86.0007	86.9468	86.5140	2.0780e-01	1.9002e+00
7	TAO050136	85.9753	86.8139	86.3532	1.7973e-01	1.9002e+00
8	TAO070136	84.5122	85.2509	84.8624	1.9111e-01	1.9001e+00
9	TAO080136	85.8680	86.3925	86.1571	1.5068e-01	1.9002e+00
10	TAO090136	86.0449	86.8851	86.4024	1.8846e-01	1.9002e+00
11	TAO100136	85.8039	86.5390	86.2034	1.6027e-01	1.9002e+00
12	TAO105136	86.3983	87.2398	86.7982	1.9814e-01	1.9002e+00
13	TAO110136	84.4453	85.1784	84.7928	1.6348e-01	1.9001e+00
14	TAO115136	85.9566	86.7991	86.3527	2.1968e-01	1.9002e+00
15	TAO120136	85.6967	86.4287	86.0769	1.4941e-01	1.9002e+00
16	TAO125136	86.0867	86.7173	86.3267	1.5748e-01	1.9002e+00
17	TAO130136	85.7283	86.3562	86.0179	1.5746e-01	1.9002e+00
18	TAO120048	85.7205	86.5605	86.1950	1.7665e-01	1.9002e+00
19	TAO130048	85.5505	86.1808	85.9119	1.4414e-01	1.9002e+00
20	TAO120224	85.7494	86.3804	86.0525	1.6268e-01	1.9002e+00
21	TAO130224	85.7630	86.3923	86.0946	1.6715e-01	1.9002e+00
22	TAO120312	85.5697	86.4106	86.0657	2.0490e-01	1.9002e+00
23	TAO130312	85.5063	86.1370	85.9350	1.4998e-01	1.9002e+00
24	TRT020000	86.0777	86.9204	86.4783	2.2002e-01	1.9002e+00
25	TRT070000	86.0421	86.6745	86.3329	1.4375e-01	1.9002e+00
26	TRT100000	85.9910	86.9354	86.5452	1.9310e-01	1.9002e+00
27	TRT120000	85.9009	86.5317	86.3003	1.6309e-01	1.9002e+00
28	TRT125000	85.8721	86.6055	86.2832	1.9357e-01	1.9002e+00
29	TRT130000	85.7771	86.4075	86.1386	1.7766e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.1895e-01	1.9011e+00
31	TAF050136	86.0793	86.7097	86.4408	1.5322e-01	1.9002e+00
32	TAF070136	86.2898	87.3373	86.8431	2.2691e-01	1.9002e+00
33	TAF080136	85.9193	86.7570	86.3219	1.8124e-01	1.9002e+00
34	TAF090136	84.1554	84.9969	84.6478	2.4051e-01	1.9001e+00
35	TAF100136	85.7714	86.5079	86.1754	1.7317e-01	1.9002e+00
36	TAF105136	85.8054	86.7463	86.2704	2.3230e-01	1.9002e+00
37	TAF110136	85.5377	86.2722	85.9830	1.7047e-01	1.9002e+00
38	TAF115136	86.1766	87.0167	86.6346	2.0641e-01	1.9002e+00
39	TAF120136	85.9986	86.4198	86.2262	1.2642e-01	1.9002e+00
40	TAF125136	85.6638	86.9188	86.4335	2.7666e-01	1.9002e+00
41	TAF130136	85.8743	86.6097	86.2737	1.7882e-01	1.9002e+00
42	TAF120048	86.1290	87.1837	86.6350	2.4868e-01	1.9002e+00
43	TAF130048	85.9078	86.5387	86.2360	1.7329e-01	1.9002e+00
44	TAF120224	85.9790	86.6102	86.3116	1.7300e-01	1.9002e+00
45	TAF130224	85.3477	86.1917	85.7782	2.0861e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0204	2.1911e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1878	1.1067e-01	1.9010e+00
48	TAI130138	85.9805	86.9262	86.5100	2.5456e-01	1.9002e+00
49	TAI130226	85.4134	86.2533	85.7917	2.0752e-01	1.9002e+00
50	TAI130314	85.8093	86.9674	86.5209	2.8964e-01	1.9002e+00
51	TAI130042	85.5016	86.3431	85.9015	1.8157e-01	1.9002e+00
52	TRR130090	85.5989	86.4393	86.0277	2.4520e-01	1.9002e+00
53	TSI000001	81.9051	82.7480	82.2889	1.6871e-01	1.9001e+00
54	TSI000002	73.0439	73.9978	73.4727	2.5676e-01	1.9000e+00
55	TSO000001	69.4409	70.4024	69.8854	1.9589e-01	1.9000e+00
56	TSO000002	79.2554	80.2057	79.6736	2.0123e-01	1.9001e+00
57	TAF020136	85.2871	86.2379	85.6840	1.8033e-01	1.9002e+00
58	TAF120312	85.6914	86.6365	86.0611	2.3736e-01	1.9002e+00
59	TAF130312	85.2708	85.9016	85.5613	1.6653e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4527	2.2146e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4670	2.3675e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4802	2.3365e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4974	1.7115e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3201	2.4484e-03	0.0000e+00
65	EMPTY	0.3369	0.3418	0.3417	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3566	9.6655e-04	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4078	2.4642e-03	0.0000e+00
70	EMPTY	0.4199	0.4248	0.4246	9.6655e-04	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4627	2.1065e-03	0.0000e+00
73	EMPTY	0.4736	0.4834	0.4827	1.9754e-03	0.0000e+00
74	EMPTY	0.4932	0.4980	0.4979	9.6655e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5135	1.8082e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5295	2.4484e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5491	2.4583e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
79	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
80	PAN020136	2.5340	4.4414	3.4694	4.9078e-01	8.7004e-01
81	PAN050136	4.1511	6.4399	5.1765	5.7180e-01	1.6800e+00
82	PAN070136	3.3440	5.3277	4.5495	3.9297e-01	8.7007e-01
83	PAN080136	1.5583	2.2449	1.8314	1.4050e-01	8.7001e-01
84	PAN090136	1.1079	1.7183	1.4573	1.2531e-01	8.7001e-01
85	PAN100136	2.4342	2.7394	2.5822	9.1721e-02	8.7002e-01
86	PAN105136	0.7169	1.0983	0.8862	8.3419e-02	8.7000e-01
87	PAN110136	1.0440	1.4255	1.2332	9.1501e-02	8.7001e-01
88	PAN115136	1.2097	1.5912	1.4340	8.3590e-02	8.7001e-01
89	PAN120136	-0.2251	0.1564	-0.0877	8.7193e-02	8.7000e-01
90	PAN125136	0.7227	1.1042	0.9378	8.1109e-02	8.7000e-01
91	PAN130136	0.9633	1.2685	1.0869	6.6992e-02	8.7000e-01
92	PAN120048	1.7799	2.1613	1.9462	1.1294e-01	8.7001e-01
93	PAN130048	2.3755	2.8333	2.6578	1.0482e-01	8.7003e-01
94	PAN120224	2.0146	2.5486	2.3014	1.1385e-01	8.7002e-01
95	PAN130224	2.9697	3.4275	3.1727	1.1494e-01	8.7004e-01
96	PAN120312	1.0037	1.7667	1.3089	1.2522e-01	8.7001e-01
97	PAN130312	2.4358	3.0461	2.8005	1.2165e-01	8.7003e-01
98	PAB000136	29.8615	30.3651	30.1408	1.0473e-01	5.8487e-01
99	PAB100136	29.2964	29.4337	29.3568	4.4775e-02	5.8463e-01
100	PAB125136	29.0719	29.2550	29.1772	4.3624e-02	5.8457e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	29.5331	30.3876	29.9848	2.1251e-01	7.5374e-01
102	PRV0000001	26.5800	26.7021	26.6288	6.0409e-02	7.5295e-01
103	PSR0000001	28.7327	28.8547	28.7864	6.1209e-02	7.5344e-01
104	PFM0000001	22.0466	22.8706	22.4641	1.7069e-01	5.0314e-01
105	PAN000136	22.7392	31.4367	27.2069	2.1282e+00	4.9205e+00
106	PFM0000002	23.2352	23.7386	23.5224	1.2741e-01	2.0847e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.3066	-9.7867	1.6542e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.2404	0.1502	0.0096	9.6976e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0099	9.4125e-02	8.1000e-01
114	VPW0000003	-0.0526	0.3380	0.0021	9.6976e-02	8.1000e-01
115	VPW0000004	-0.3681	0.0225	-0.0751	1.0625e-01	8.1000e-01
116	VPW0000005	-0.1202	0.2704	0.0360	1.0440e-01	8.1000e-01
117	VPW0000006	-0.2216	0.1690	0.0089	1.0206e-01	8.1000e-01
118	IPW0000001	-4.1299	1.7272	-1.2795	1.1970e+00	8.1000e+00
119	IPW0000002	-0.9755	2.9271	0.4294	1.1178e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	0.1021	1.1660e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.1788	2.4642e-01	2.0000e+00
122	IPW0000005	-0.5633	-0.0751	-0.3290	2.4640e-01	2.0000e+00
123	IPW0000006	-0.7043	0.2723	-0.0890	3.0897e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.2839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0173	2.8266e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.2658e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0407	1.0320e-01	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0284	8.8585e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0344	8.6810e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0416	8.7880e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0376	9.8648e-02	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0801	9.3461e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0690	9.2034e-02	4.1000e+00
135	IHT0000008	-0.2442	0.3418	0.0371	1.1272e-01	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0566	7.8523e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0072	7.8523e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0095	9.3043e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0716	6.7888e-02	4.1000e+00
142	IHT0000015	0.0000	0.1953	0.0351	7.5798e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0182	6.6498e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0682	1.9266e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0356	1.0106e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.1109	1.0297e-01	4.1000e+00
147	IHT0000020	-0.2554	0.3305	-0.0250	1.0206e-01	4.1000e+00
148	IHT0000021	-0.2779	0.1127	-0.0436	8.8233e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0345	9.6655e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0735	9.0756e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0835	1.0168e-01	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0401	8.2393e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0457	7.7324e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0458	1.0625e-01	4.1000e+00

Test: May01_09 sum1 Date: Tue May 1 12:01:26 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0085	7.9017e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0832	9.7377e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0336	1.1995e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	9.2456e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00

Test: May01_09

sum2

Date: Tue May 1 12:01:26 1990

Page: 1

Velocity 1 = 12.1003 (ft/sec) (+/- 2.0100 %)
Velocity 2 = 12.3707 (ft/sec) (+/- 1.7153 %)
Pressure drop = 0.9739 (psi)
Tsats in = 250.7728 (deg F) Tsats out = 248.9452 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4102.8267 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3655.7278 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.7934	1.6122e-01	1.9000e+00
1	TRF000002	74.6505	75.0738	74.9615	1.2297e-01	1.9000e+00
2	TFM000001	85.8927	86.6276	86.2418	2.1023e-01	1.9002e+00
3	TIN000001	85.6205	86.2518	85.9038	1.4444e-01	1.9002e+00
4	TRV000001	85.7249	86.4575	86.1009	1.6676e-01	1.9002e+00
5	TSR000001	86.2767	86.8007	86.5338	1.1737e-01	1.9002e+00
6	TAO020136	86.1061	86.9473	86.5609	2.0854e-01	1.9002e+00
7	TAO050136	85.9774	86.7085	86.3651	1.7755e-01	1.9002e+00
8	TAO070136	84.6172	85.2503	84.9341	1.6248e-01	1.9002e+00
9	TAO080136	85.8680	86.4957	86.1907	1.5255e-01	1.9002e+00
10	TAO090136	86.0455	86.7797	86.3839	1.9192e-01	1.9002e+00
11	TAO100136	85.9093	86.4348	86.1901	1.5808e-01	1.9002e+00
12	TAO105136	86.3982	87.2398	86.8149	1.8830e-01	1.9002e+00
13	TAO110136	84.4448	85.1784	84.7891	1.6701e-01	1.9001e+00
14	TAO115136	85.9572	86.7991	86.3994	1.8490e-01	1.9002e+00
15	TAO120136	85.7994	86.4287	86.1293	1.4330e-01	1.9002e+00
16	TAO125136	85.9824	86.8221	86.3679	1.6655e-01	1.9002e+00
17	TAO130136	85.7283	86.3562	86.0406	1.6425e-01	1.9002e+00
18	TAO120048	85.8248	86.5605	86.1961	1.7689e-01	1.9002e+00
19	TAO130048	85.5523	86.1808	85.9278	1.5574e-01	1.9002e+00
20	TAO120224	85.7494	86.3804	86.0629	1.6544e-01	1.9002e+00
21	TAO130224	85.7630	86.3923	86.1098	1.5869e-01	1.9002e+00
22	TAO120312	85.7793	86.6206	86.0715	1.5807e-01	1.9002e+00
23	TAO130312	85.7158	86.1370	85.9309	1.2681e-01	1.9002e+00
24	TRT020000	86.0787	86.9204	86.4779	1.9218e-01	1.9002e+00
25	TRT070000	86.0426	86.6745	86.3432	1.4435e-01	1.9002e+00
26	TRT100000	86.0964	87.0401	86.5735	1.9863e-01	1.9002e+00
27	TRT120000	86.0063	86.7413	86.3298	1.4984e-01	1.9002e+00
28	TRT125000	85.9770	86.8134	86.3681	2.1090e-01	1.9002e+00
29	TRT130000	85.7771	86.4075	86.1459	1.5905e-01	1.9002e+00
30	EMPTY	39.1464	40.2940	39.6619	2.1740e-01	1.9011e+00
31	TAF050136	86.1847	86.9189	86.4652	1.4896e-01	1.9002e+00
32	TAF070136	86.3952	87.3373	86.8416	2.0468e-01	1.9002e+00
33	TAF080136	86.0248	86.6516	86.3300	1.4632e-01	1.9002e+00
34	TAF090136	84.1554	85.2068	84.6449	2.4308e-01	1.9001e+00
35	TAF100136	85.8763	86.5079	86.2030	1.6807e-01	1.9002e+00
36	TAF105136	85.8054	86.7458	86.3223	2.2287e-01	1.9002e+00
37	TAF110136	85.7471	86.3776	86.0305	1.4404e-01	1.9002e+00
38	TAF115136	86.1766	87.0167	86.6439	1.7926e-01	1.9002e+00
39	TAF120136	85.9986	86.4198	86.2308	1.0945e-01	1.9002e+00
40	TAF125136	85.9778	87.1272	86.4661	2.6819e-01	1.9002e+00
41	TAF130136	85.8743	86.5050	86.2690	1.5975e-01	1.9002e+00
42	TAF120048	85.9174	87.1837	86.6496	2.5078e-01	1.9002e+00
43	TAF130048	86.0132	86.5387	86.2469	1.4895e-01	1.9002e+00
44	TAF120224	85.8749	86.7149	86.3183	1.6924e-01	1.9002e+00
45	TAF130224	85.3477	86.1917	85.7826	2.0498e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0303	1.9913e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1886	8.9840e-02	1.9010e+00
48	TAI130138	85.9799	87.0307	86.5186	2.6830e-01	1.9002e+00
49	TAI130226	85.5189	86.2533	85.7994	1.7440e-01	1.9002e+00
50	TAI130314	85.9148	87.1772	86.4710	2.9055e-01	1.9002e+00
51	TAI130042	85.5023	86.3431	85.8796	1.8578e-01	1.9002e+00
52	TRR130090	85.7038	86.4393	86.0492	2.1093e-01	1.9002e+00
53	TSI000001	82.0109	82.5378	82.3139	1.4042e-01	1.9001e+00
54	TSI000002	72.9386	74.1043	73.4382	2.8445e-01	1.9000e+00
55	TSO000001	69.5477	70.1886	69.8443	1.6352e-01	1.9000e+00
56	TSO000002	79.4664	80.2053	79.7875	1.7628e-01	1.9001e+00
57	TAF020136	85.3930	86.0266	85.7158	1.6029e-01	1.9002e+00
58	TAF120312	85.3761	86.6365	86.0536	2.6420e-01	1.9002e+00
59	TAF130312	85.2708	85.7962	85.5842	1.4769e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4535	1.6172e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4684	1.3508e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4815	2.4037e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4979	6.9754e-04	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3207	2.3135e-03	0.0000e+00
65	EMPTY	0.3418	0.3418	0.3418	0.0000e+00	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3567	1.1827e-03	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3857	0.3955	0.3905	1.2165e-03	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4083	2.4037e-03	0.0000e+00
70	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4488	1.3508e-03	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4633	1.6172e-03	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4828	1.6172e-03	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5148	2.4414e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5305	2.3483e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5506	2.1215e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5715	9.7615e-04	0.0000e+00
79	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
80	PAN020136	2.3814	4.8229	3.6520	5.7507e-01	8.7005e-01
81	PAN050136	3.6933	6.4399	5.1165	6.7337e-01	1.6800e+00
82	PAN070136	3.4966	6.0143	4.6130	5.5623e-01	8.7008e-01
83	PAN080136	1.4820	2.3212	1.8152	1.5935e-01	8.7001e-01
84	PAN090136	1.1842	1.6420	1.4240	9.7256e-02	8.7001e-01
85	PAN100136	2.3579	2.7394	2.5666	9.8218e-02	8.7002e-01
86	PAN105136	0.7169	1.0220	0.8570	7.8406e-02	8.7000e-01
87	PAN110136	1.0440	1.4255	1.2200	9.2402e-02	8.7001e-01
88	PAN115136	1.2097	1.5912	1.4230	9.7231e-02	8.7001e-01
89	PAN120136	-0.2251	0.0801	-0.0865	7.7357e-02	8.7000e-01
90	PAN125136	0.7227	1.1042	0.9251	9.0206e-02	8.7000e-01
91	PAN130136	0.8871	1.2685	1.0895	8.4659e-02	8.7000e-01
92	PAN120048	1.6273	2.0850	1.8655	1.2325e-01	8.7001e-01
93	PAN130048	2.3755	2.8333	2.6355	1.2644e-01	8.7002e-01
94	PAN120224	2.0909	2.6249	2.3057	1.3276e-01	8.7002e-01
95	PAN130224	2.8935	3.3512	3.1566	1.0684e-01	8.7004e-01
96	PAN120312	1.0037	1.6904	1.3868	1.4058e-01	8.7001e-01
97	PAN130312	2.3595	2.9698	2.6865	1.1860e-01	8.7003e-01
98	PAB000136	29.9531	30.4109	30.1680	1.1337e-01	5.8488e-01
99	PAB100136	29.3422	29.4795	29.4066	4.0642e-02	5.8464e-01
100	PAB125136	29.1634	29.3008	29.2316	4.3949e-02	5.8459e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	29.5331	30.3876	29.9915	2.1940e-01	7.5374e-01
102	PRV000001	26.5800	26.7021	26.5924	3.7334e-02	7.5294e-01
103	PSR000001	28.7327	28.9768	28.8547	2.4918e-02	7.5346e-01
104	PFM000001	22.0466	22.7791	22.3998	1.8119e-01	5.0313e-01
105	PAN000136	22.2814	31.4367	26.9618	2.0499e+00	4.9205e+00
106	PFM000002	23.1009	23.6379	23.4201	1.2252e-01	2.0839e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.4141	-9.7755	1.5694e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0011	2.2871e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0002	1.3951e-03	0.0000e+00
112	VPW000001	-0.2404	0.5409	0.0227	1.2321e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0371	7.9328e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0287	8.5810e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0731	1.1362e-01	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0233	8.7123e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0103	1.2504e-01	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.4603	1.1054e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4979	1.0930e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.2358	1.0531e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1441	2.4538e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3640	2.4245e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0466	2.9146e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0218	3.4673e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	3.2500e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0179	2.8866e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1518e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0484	8.8783e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0295	9.7656e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0427	8.5810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0458	7.3601e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0276	9.8153e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0748	9.5132e-02	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0557	1.1146e-01	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0349	9.7656e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0877	7.5986e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0448	4.8662e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0111	4.8662e-02	4.1000e+00
139	IHT000012	-0.0563	0.1390	-0.0165	7.9532e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0789	3.9868e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0758	8.3705e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0199	5.9734e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0298	4.8662e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0845	1.5101e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0166	7.9736e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1039	9.9792e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0282	7.2937e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0428	8.8965e-02	4.1000e+00
149	IHT000022	-0.4056	0.1803	-0.1186	1.1348e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0609	8.7123e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0566	9.0949e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0681	8.8783e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0554	7.8092e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0460	7.8092e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0422	1.1161e-01	4.1000e+00

Test: May01_09

sum2

Date: Tue May 1 12:01:26 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0029	6.7148e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0696	1.0640e-01	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0475	9.8153e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0312	7.1817e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0040	9.3412e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0494	1.0409e-01	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0222	9.0949e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0279	8.9148e-02	4.1000e+00

Test: May01_09 dif Date: Tue May 1 12:01:26 1990 Page: 1

Velocity 1 = 0.017200 (ft/sec)

Velocity 2 = 0.026800 (ft/sec)

Pressure Drop = 0.008800 (psi)

Tsat in = 0.052292 (deg F) Tsat out = 0.107910 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0096	0.0128
1	TRF000002	0.0105	0.0140
2	TFM000001	0.0593	0.0688
3	TIN000001	0.0112	0.0130
4	TRV000001	0.0200	0.0232
5	TSR000001	0.0051	0.0059
6	TAO020136	0.0469	0.0542
7	TAO050136	0.0119	0.0138
8	TAO070136	0.0717	0.0845
9	TAO080136	0.0336	0.0390
10	TAO090136	0.0185	0.0214
11	TAO100136	0.0133	0.0154
12	TAO105136	0.0167	0.0192
13	TAO110136	0.0037	0.0044
14	TAO115136	0.0467	0.0541
15	TAO120136	0.0524	0.0609
16	TAO125136	0.0412	0.0477
17	TAO130136	0.0227	0.0264
18	TAO120048	0.0011	0.0013
19	TAO130048	0.0159	0.0185
20	TAO120224	0.0104	0.0121
21	TAO130224	0.0152	0.0177
22	TAO120312	0.0058	0.0067
23	TAO130312	0.0041	0.0048
24	TRT020000	0.0004	0.0005
25	TRT070000	0.0103	0.0119
26	TRT100000	0.0283	0.0327
27	TRT120000	0.0295	0.0342
28	TRT125000	0.0849	0.0984
29	TRT130000	0.0073	0.0085
30	EMPTY	0.0058	0.0146
31	TAF050136	0.0244	0.0282
32	TAF070136	0.0015	0.0017
33	TAF080136	0.0081	0.0094
34	TAF090136	0.0029	0.0034
35	TAF100136	0.0276	0.0320
36	TAF105136	0.0519	0.0602
37	TAF110136	0.0475	0.0552
38	TAF115136	0.0093	0.0107
39	TAF120136	0.0046	0.0053
40	TAF125136	0.0326	0.0377
41	TAF130136	0.0047	0.0054
42	TAF120048	0.0146	0.0168
43	TAF130048	0.0109	0.0126
44	TAF120224	0.0057	0.0078
45	TAF130224	0.0044	0.0051

#	Name	Abs Diff	%Diff
46	EMPTY	0.0099	0.0260
47	EMPTY	0.0008	0.0020
48	TAI130138	0.0086	0.0099
49	TAI130226	0.0077	0.0090
50	TAI130314	0.0499	0.0577
51	TAI130042	0.0219	0.0255
52	TRR130090	0.0215	0.0250
53	TSI000001	0.0250	0.0304
54	TSI000002	0.0345	0.0470
55	TSO000001	0.0411	0.0588
56	TSO000002	0.1139	0.1430
57	TAF020136	0.0318	0.0371
58	TAF120312	0.0075	0.0087
59	TAF130312	0.0229	0.0268
60	EMPTY	0.0008	0.1767
61	EMPTY	0.0014	0.2998
62	EMPTY	0.0013	0.2707
63	EMPTY	0.0005	0.1005
64	EMPTY	0.0006	0.1874
65	EMPTY	0.0001	0.0292
66	EMPTY	0.0001	0.0280
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0005	0.1226
70	EMPTY	0.0002	0.0471
71	EMPTY	0.0002	0.0445
72	EMPTY	0.0006	0.1297
73	EMPTY	0.0001	0.0207
74	EMPTY	0.0001	0.0201
75	EMPTY	0.0013	0.2532
76	EMPTY	0.0010	0.1889
77	EMPTY	0.0015	0.2732
78	EMPTY	0.0001	0.0175
79	EMPTY	0.0000	0.0000
80	PAN020136	0.1826	5.2632
81	PAN050136	0.0600	1.1591
82	PAN070136	0.0635	1.3958
83	PAN080136	0.0162	0.8846
84	PAN090136	0.0333	2.2850
85	PAN100136	0.0156	0.6041
86	PAN105136	0.0292	3.2950
87	PAN110136	0.0132	1.0704
88	PAN115136	0.0110	0.7671
89	PAN120136	0.0012	1.3683
90	PAN125136	0.0127	1.3542
91	PAN130136	0.0026	0.2392
92	PAN120048	0.0807	4.1465
93	PAN130048	0.0223	0.8390
94	PAN120224	0.0043	0.1868
95	PAN130224	0.0161	0.5075
96	PAN120312	0.0779	5.9516
97	PAN130312	0.1140	4.0707
98	PAB000136	0.0272	0.0902
99	PAB100136	0.0498	0.1696
100	PAB125136	0.0544	0.1864

#	Name	Abs Diff	%Diff
101	PIN000001	0.0067	0.0223
102	PRV000001	0.0364	0.1367
103	PSR000001	0.0683	0.2373
104	PFM000001	0.0643	0.2862
105	PAN000136	0.2451	0.9009
106	PFM000002	0.1023	0.4349
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0112	0.1144
109	EMPTY	0.0003	21.4286
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0131	136.4583
113	VPW000002	0.0272	274.7475
114	VPW000003	0.0308	1466.6667
115	VPW000004	0.0020	2.6631
116	VPW000005	0.0127	35.2778
117	VPW000006	0.0192	215.7304
118	IPW000001	0.1808	14.1305
119	IPW000002	0.0685	15.9525
120	IPW000003	0.1337	130.9500
121	IPW000004	0.0347	19.4072
122	IPW000005	0.0350	10.6383
123	IPW000006	0.0424	47.6405
124	EMPTY	0.0006	2.8302
125	EMPTY	0.0002	1.4389
126	EMPTY	0.0006	3.4682
127	EMPTY	0.0001	0.6897
128	IHT000001	0.0077	18.9189
129	IHT000002	0.0011	3.8732
130	IHT000003	0.0083	24.1279
131	IHT000004	0.0042	10.0962
132	IHT000005	0.0100	26.5957
133	IHT000006	0.0053	6.6167
134	IHT000007	0.0133	19.2754
135	IHT000008	0.0022	5.9299
136	IHT000009	0.0434	97.9684
137	IHT000010	0.0118	20.8481
138	IHT000011	0.0039	54.1667
139	IHT000012	0.0070	73.6842
140	IHT000013	0.0078	10.9705
141	IHT000014	0.0042	5.8659
142	IHT000015	0.0152	43.3048
143	IHT000016	0.0116	63.7363
144	IHT000017	0.0163	23.9003
145	IHT000018	0.0190	53.3708
146	IHT000019	0.0070	6.3120
147	IHT000020	0.0032	12.8000
148	IHT000021	0.0008	1.8349
149	IHT000022	0.0216	22.2680
150	IHT000023	0.0264	76.5217
151	IHT000024	0.0169	22.9932
152	IHT000025	0.0154	18.4431
153	IHT000026	0.0153	38.1546
154	IHT000027	0.0003	0.6565
155	IHT000028	0.0036	7.8603

Test: May01_09 dif Date: Tue May 1 12:01:26 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0114	134.1176
157	IHT000030	0.0136	16.3462
158	IHT000031	0.0139	41.3690
159	IHT000032	0.0277	791.4285
160	IHT000033	0.0079	202.5641
161	IHT000034	0.0015	3.1315
162	IHT000035	0.0106	32.3171
163	IHT000036	0.0112	28.6445

Velocity 1 = 10.0564 (ft/sec) (+/- 2.3286 %)
Velocity 2 = 10.4058 (ft/sec) (+/- 1.7582 %)
Pressure drop = -0.8146 (psi)
Tsats in = 246.6234 (deg F) Tsats out = 248.2154 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 513.1943 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 11562.7627 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.2754	74.8328	1.7110e-01	1.9000e+00
1	TRF000002	74.8621	75.0738	74.9976	1.0261e-01	1.9000e+00
2	TFM000001	86.2072	86.9425	86.6101	1.8279e-01	1.9002e+00
3	TIN000001	85.9361	86.5672	86.2601	1.4857e-01	1.9002e+00
4	TRV000001	86.0382	86.7719	86.4531	1.6107e-01	1.9002e+00
5	TSR000001	86.3810	87.0114	86.6501	1.3420e-01	1.9002e+00
6	TAO020136	86.3165	87.3677	86.8546	2.5105e-01	1.9002e+00
7	TAO050136	86.3944	87.0225	86.7416	1.5182e-01	1.9002e+00
8	TAO070136	84.6177	85.5668	85.1788	2.2988e-01	1.9002e+00
9	TAO080136	86.2849	86.8098	86.5539	1.6690e-01	1.9002e+00
10	TAO090136	86.3606	87.1999	86.7671	1.9151e-01	1.9002e+00
11	TAO100136	86.2239	86.9594	86.5851	1.6590e-01	1.9002e+00
12	TAO105136	86.8188	87.6602	87.1472	2.0110e-01	1.9002e+00
13	TAO110136	84.7588	85.3868	85.0433	1.5282e-01	1.9002e+00
14	TAO115136	86.3776	87.3257	86.7655	2.2356e-01	1.9002e+00
15	TAO120136	86.1130	86.9501	86.4769	1.5450e-01	1.9002e+00
16	TAO125136	86.2969	87.0316	86.6705	1.7386e-01	1.9002e+00
17	TAO130136	86.0405	86.6682	86.3864	1.3776e-01	1.9002e+00
18	TAO120048	86.2443	86.8755	86.5390	1.8498e-01	1.9002e+00
19	TAO130048	85.9700	86.5988	86.2592	1.4160e-01	1.9002e+00
20	TAO120224	86.0642	86.8001	86.4135	1.8312e-01	1.9002e+00
21	TAO130224	86.0766	86.8083	86.4612	1.6032e-01	1.9002e+00
22	TAO120312	86.0949	86.9360	86.4186	1.8616e-01	1.9002e+00
23	TAO130312	85.9267	86.7652	86.2828	1.7990e-01	1.9002e+00
24	TRT020000	86.3942	87.3414	86.8825	2.1660e-01	1.9002e+00
25	TRT070000	86.3589	87.0972	86.7005	1.6714e-01	1.9002e+00
26	TRT100000	86.5153	87.3548	86.9389	1.9404e-01	1.9002e+00
27	TRT120000	86.4252	87.0563	86.6904	1.5766e-01	1.9002e+00
28	TRT125000	86.2915	87.2326	86.7089	2.0596e-01	1.9002e+00
29	TRT130000	86.1973	86.9313	86.4820	1.5871e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6148	1.9654e-01	1.9011e+00
31	TAF050136	86.4995	87.2335	86.8553	1.8221e-01	1.9002e+00
32	TAF070136	86.6041	87.7547	87.2067	2.2218e-01	1.9002e+00
33	TAF080136	86.2331	86.9652	86.6804	1.6386e-01	1.9002e+00
34	TAF090136	84.3660	85.2068	84.8620	2.1433e-01	1.9001e+00
35	TAF100136	86.0867	86.8236	86.4951	1.8364e-01	1.9002e+00
36	TAF105136	86.1192	87.0592	86.6496	2.6220e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.3976	1.7734e-01	1.9002e+00
38	TAF115136	86.4916	87.3304	86.9407	2.0549e-01	1.9002e+00
39	TAF120136	86.3133	86.9434	86.6530	1.4313e-01	1.9002e+00
40	TAF125136	86.1863	87.3355	86.8215	2.8749e-01	1.9002e+00
41	TAF130136	86.3989	87.1335	86.6761	1.7711e-01	1.9002e+00
42	TAF120048	86.4453	87.3951	87.0111	2.2745e-01	1.9002e+00
43	TAF130048	86.2230	86.8537	86.5591	1.6971e-01	1.9002e+00
44	TAF120224	86.2940	87.0303	86.6981	1.8430e-01	1.9002e+00
45	TAF130224	85.8760	86.5089	86.1288	1.5362e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0247e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1878	1.0047e-01	1.9010e+00
48	TAI130138	86.1900	87.3460	86.8670	2.2966e-01	1.9002e+00
49	TAI130226	85.7282	86.6717	86.1896	2.0954e-01	1.9002e+00
50	TAI130314	86.1253	87.4928	86.8954	3.0090e-01	1.9002e+00
51	TAI130042	85.8172	86.6585	86.2545	2.0300e-01	1.9002e+00
52	TRR130090	85.9135	86.8583	86.3589	2.2279e-01	1.9002e+00
53	TSI000001	81.8005	82.3276	82.1040	1.4839e-01	1.9001e+00
54	TSI000002	72.3032	73.4694	72.8927	2.8182e-01	1.9000e+00
55	TSO000001	68.7988	69.5469	69.1322	1.9154e-01	1.9000e+00
56	TSO000002	79.1503	79.7838	79.5132	1.8736e-01	1.9001e+00
57	TAF020136	85.6040	86.3427	86.0177	1.7678e-01	1.9002e+00
58	TAF120312	85.9007	86.8462	86.4094	2.8321e-01	1.9002e+00
59	TAF130312	85.5858	86.3204	85.9468	1.5608e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4594	1.3381e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4738	9.6655e-04	0.0000e+00
62	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5033	1.3381e-03	0.0000e+00
64	EMPTY	0.3223	0.3223	0.3223	0.0000e+00	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3422	1.3381e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3596	2.3675e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3765	1.4797e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4251	1.1714e-03	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4984	1.3381e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5273	0.5371	0.5324	1.3811e-03	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5742	2.4164e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5971	2.2146e-03	0.0000e+00
80	PAN020136	-4.3324	-1.2044	-2.7379	5.4261e-01	8.7003e-01
81	PAN050136	-8.0559	-4.5464	-6.4049	6.7094e-01	1.6801e+00
82	PAN070136	-4.2091	-2.5306	-3.4049	3.7446e-01	8.7004e-01
83	PAN080136	-3.7060	-2.0276	-2.9324	3.8719e-01	8.7003e-01
84	PAN090136	-2.4779	-1.0283	-1.6112	3.5943e-01	8.7001e-01
85	PAN100136	-1.6857	-1.2279	-1.4446	1.0938e-01	8.7001e-01
86	PAN105136	-1.1905	-0.8853	-0.9998	7.2706e-02	8.7000e-01
87	PAN110136	-1.0159	-0.7107	-0.8176	7.7069e-02	8.7000e-01
88	PAN115136	-0.7739	-0.3924	-0.5694	9.1760e-02	8.7000e-01
89	PAN120136	-2.0561	-1.6747	-1.8944	8.1036e-02	8.7001e-01
90	PAN125136	-1.3372	-0.9558	-1.1419	8.0329e-02	8.7000e-01
91	PAN130136	-0.9440	-0.7151	-0.7945	6.7116e-02	8.7000e-01
92	PAN120048	-2.1111	-1.5008	-1.8288	1.1964e-01	8.7001e-01
93	PAN130048	-1.8207	-1.2866	-1.4941	1.0112e-01	8.7001e-01
94	PAN120224	-1.8764	-1.4949	-1.6643	9.6616e-02	8.7001e-01
95	PAN130224	-1.3790	-0.9212	-1.1486	1.0733e-01	8.7000e-01
96	PAN120312	-2.6584	-2.2006	-2.4127	1.1146e-01	8.7002e-01
97	PAN130312	-1.5315	-1.2263	-1.3881	9.4565e-02	8.7001e-01
98	PAB000136	27.8016	28.2594	28.0790	1.1492e-01	5.8423e-01
99	PAB100136	28.6098	28.7471	28.6821	4.2471e-02	5.8442e-01
100	PAB125136	28.7972	28.9345	28.8650	3.8400e-02	5.8447e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.5800	28.4345	27.9023	2.0301e-01	7.5324e-01
102	PRV000001	26.5800	26.9462	26.6654	7.0836e-02	7.5296e-01
103	PSR000001	28.7327	28.8547	28.7400	2.9284e-02	7.5343e-01
104	PFM000001	15.1802	15.6380	15.4219	1.0424e-01	5.0148e-01
105	PAN000136	-26.6993	-19.3751	-22.5520	1.7679e+00	4.9203e+00
106	PFM000002	16.2044	16.8421	16.5226	1.3907e-01	2.0422e-01
107	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2529	-9.5650	1.7869e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0217	7.5283e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0096	9.8963e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0751	1.0625e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0400	1.0942e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0185	1.1811e-01	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.3185	9.7896e-01	8.1000e+00
119	IPW000002	-2.9267	2.9271	0.5075	1.0097e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.0241	9.9976e-01	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2667	2.4662e-01	2.0000e+00
122	IPW000005	-1.0516	0.9014	-0.3778	3.5414e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0793	2.9660e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	2.7919e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.7919e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	2.6998e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	8.3612e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0518	9.6655e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0383	5.9189e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0377	4.8166e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0259	1.1272e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.1035	8.1729e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0573	9.5765e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0058	8.8585e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0560	6.7888e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0566	8.7880e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0111	6.2265e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0173	1.1838e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0554	8.4997e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	1.0320e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0273	7.9017e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT000017	-0.2479	0.3380	-0.0643	1.5490e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0356	9.3043e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1070	1.0849e-01	4.1000e+00
147	IHT000020	-0.0601	0.3305	-0.0132	9.3043e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0514	8.2393e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1166	9.8569e-02	4.1000e+00
150	IHT000023	-0.1127	0.2780	-0.0580	9.6976e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0656	9.5112e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0874	8.8321e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0518	7.1136e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	6.8345e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0693	9.8963e-02	4.1000e+00

Test: May01_10

sum1

Date: Tue May 1 12:06:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.3718	0.0164	9.4125e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0832	9.7377e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.1327e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0230	9.1779e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0117	8.2864e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0128	7.8918e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0289	1.0145e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0156	8.6810e-02	4.1000e+00

Test: May01_10

sum2

Date: Tue May 1 12:06:11 1990

Page: 1

Velocity 1 = 10.0411 (ft/sec) (+/- 2.3321 %)
Velocity 2 = 10.3960 (ft/sec) (+/- 1.7585 %)
Pressure drop = -0.8213 (psi)
Tsats in = 246.7421 (deg F) Tsats out = 248.3228 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 6843.7363 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 173810.1563 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.8325	1.8344e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	74.9830	1.1429e-01	1.9000e+00
2	TFM000001	86.2066	87.2555	86.6055	2.1513e-01	1.9002e+00
3	TIN000001	85.8306	86.4622	86.2517	1.4246e-01	1.9002e+00
4	TRV000001	85.9346	86.7719	86.4168	1.9691e-01	1.9002e+00
5	TSR000001	86.3816	87.0095	86.6278	1.6228e-01	1.9002e+00
6	TAO020136	86.5263	87.3677	86.8485	2.0634e-01	1.9002e+00
7	TAO050136	86.3929	87.0225	86.7401	1.6592e-01	1.9002e+00
8	TAO070136	84.7233	85.5668	85.2010	2.0769e-01	1.9002e+00
9	TAO080136	86.1801	86.8098	86.5486	1.5147e-01	1.9002e+00
10	TAO090136	86.4641	87.0946	86.7518	1.7231e-01	1.9002e+00
11	TAO100136	86.1191	86.8540	86.5454	1.5222e-01	1.9002e+00
12	TAO105136	86.7140	87.6602	87.1582	2.2019e-01	1.9002e+00
13	TAO110136	84.7568	85.3868	85.0320	1.4652e-01	1.9002e+00
14	TAO115136	86.2728	87.2204	86.8079	2.6481e-01	1.9002e+00
15	TAO120136	86.1130	86.6368	86.4566	1.3544e-01	1.9002e+00
16	TAO125136	86.4011	87.0316	86.6888	1.5569e-01	1.9002e+00
17	TAO130136	86.1418	86.5628	86.3828	1.3172e-01	1.9002e+00
18	TAO120048	86.2449	86.7702	86.5471	1.6558e-01	1.9002e+00
19	TAO130048	85.9700	86.5988	86.2480	1.3820e-01	1.9002e+00
20	TAO120224	86.0648	86.8001	86.4057	1.6412e-01	1.9002e+00
21	TAO130224	86.0766	86.7035	86.4541	1.3344e-01	1.9002e+00
22	TAO120312	86.0949	86.8306	86.4145	1.5760e-01	1.9002e+00
23	TAO130312	85.9253	86.5558	86.2815	1.7256e-01	1.9002e+00
24	TRT020000	86.4990	87.1313	86.8345	1.6873e-01	1.9002e+00
25	TRT070000	86.2535	86.9919	86.6882	1.5461e-01	1.9002e+00
26	TRT100000	86.3059	87.2494	86.9069	1.9933e-01	1.9002e+00
27	TRT120000	86.4257	86.9509	86.6765	1.5578e-01	1.9002e+00
28	TRT125000	86.3947	87.2303	86.7343	1.9161e-01	1.9002e+00
29	TRT130000	85.9864	86.8260	86.4707	1.4669e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6947	1.7415e-01	1.9011e+00
31	TAF050136	86.2887	87.3374	86.8028	2.0781e-01	1.9002e+00
32	TAF070136	86.8130	87.5460	87.1955	1.9261e-01	1.9002e+00
33	TAF080136	86.3385	86.9652	86.6746	1.4685e-01	1.9002e+00
34	TAF090136	84.4709	85.6264	84.9620	2.4201e-01	1.9002e+00
35	TAF100136	86.1922	86.9285	86.5035	1.8956e-01	1.9002e+00
36	TAF105136	86.2240	87.0592	86.6285	2.1461e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.4023	1.9218e-01	1.9002e+00
38	TAF115136	86.5964	87.4357	87.0246	1.8154e-01	1.9002e+00
39	TAF120136	86.3133	86.8380	86.6791	1.3240e-01	1.9002e+00
40	TAF125136	86.2917	87.3355	86.8705	3.0358e-01	1.9002e+00
41	TAF130136	86.3989	86.9241	86.6626	1.6053e-01	1.9002e+00
42	TAF120048	86.6568	87.3951	87.0249	1.8289e-01	1.9002e+00
43	TAF130048	86.2230	86.8532	86.5809	1.4527e-01	1.9002e+00
44	TAF120224	86.2946	87.0303	86.6956	1.8903e-01	1.9002e+00
45	TAF130224	85.7705	86.5089	86.1535	1.5628e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0443	1.8165e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1418	8.7576e-02	1.9010e+00
48	TAI130138	86.2954	87.3460	86.8444	3.0555e-01	1.9002e+00
49	TAI130226	85.6228	86.4625	86.1327	1.8670e-01	1.9002e+00
50	TAI130314	86.3358	87.3881	86.9305	2.9405e-01	1.9002e+00
51	TAI130042	85.8172	86.5532	86.2570	2.0097e-01	1.9002e+00
52	TRR130090	85.8098	86.8583	86.3530	2.3423e-01	1.9002e+00
53	TSI000001	81.8005	82.5378	82.0908	1.6457e-01	1.9001e+00
54	TSI000002	72.3032	73.4694	72.9674	2.7601e-01	1.9000e+00
55	TSO000001	68.5847	69.4401	69.0801	2.0559e-01	1.9000e+00
56	TSO000002	79.0443	79.7838	79.4431	1.9912e-01	1.9001e+00
57	TAF020136	85.6034	86.4481	86.0003	1.7563e-01	1.9002e+00
58	TAF120312	85.9013	86.8462	86.4262	2.8101e-01	1.9002e+00
59	TAF130312	85.2708	86.3204	85.9520	1.8943e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4598	1.8234e-03	0.0000e+00
61	EMPTY	0.4688	0.4785	0.4738	1.3951e-03	0.0000e+00
62	EMPTY	0.4834	0.4883	0.4882	6.9754e-04	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5036	1.7263e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3224	6.9754e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3423	1.4934e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3601	2.1215e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3772	2.1215e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.7615e-04	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4103	6.9754e-04	0.0000e+00
70	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4494	9.7615e-04	0.0000e+00
72	EMPTY	0.4590	0.4688	0.4639	9.9670e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4836	9.7615e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4981	6.9754e-04	0.0000e+00
75	EMPTY	0.5176	0.5273	0.5178	1.3951e-03	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
78	EMPTY	0.5713	0.5811	0.5745	2.5510e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5966	1.9103e-03	0.0000e+00
80	PAN020136	-3.9510	-1.3570	-2.7474	4.9866e-01	8.7003e-01
81	PAN050136	-8.3611	-5.0042	-6.5238	6.3141e-01	1.6801e+00
82	PAN070136	-4.2091	-2.6832	-3.4337	4.2603e-01	8.7004e-01
83	PAN080136	-2.4090	-1.5698	-1.9030	1.6967e-01	8.7001e-01
84	PAN090136	-2.7068	-2.1727	-2.5293	1.1055e-01	8.7002e-01
85	PAN100136	-1.6094	-1.2279	-1.4459	1.0093e-01	8.7001e-01
86	PAN105136	-1.1905	-0.8090	-1.0177	8.0585e-02	8.7000e-01
87	PAN110136	-1.0159	-0.7107	-0.8260	7.1574e-02	8.7000e-01
88	PAN115136	-0.7739	-0.4687	-0.6135	7.8248e-02	8.7000e-01
89	PAN120136	-1.9798	-1.5984	-1.8506	9.6259e-02	8.7001e-01
90	PAN125136	-1.2609	-1.0321	-1.1411	6.9647e-02	8.7000e-01
91	PAN130136	-0.9440	-0.6388	-0.8008	6.9004e-02	8.7000e-01
92	PAN120048	-2.1111	-1.5771	-1.8355	1.3289e-01	8.7001e-01
93	PAN130048	-1.8207	-1.2866	-1.5108	1.3702e-01	8.7001e-01
94	PAN120224	-1.8764	-1.3424	-1.6818	1.1344e-01	8.7001e-01
95	PAN130224	-1.3790	-0.9212	-1.1486	1.0031e-01	8.7000e-01
96	PAN120312	-2.6584	-2.2006	-2.4357	1.0658e-01	8.7002e-01
97	PAN130312	-1.6841	-1.1500	-1.3929	1.0525e-01	8.7001e-01
98	PAB000136	27.8932	28.4882	28.1370	1.2515e-01	5.8425e-01
99	PAB100136	28.6555	28.8386	28.7387	4.5464e-02	5.8443e-01
100	PAB125136	28.8430	28.9803	28.9187	4.2360e-02	5.8449e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.5800	28.3124	27.9313	1.7905e-01	7.5324e-01
102	PRV000001	26.5800	26.7021	26.6049	4.9708e-02	7.5294e-01
103	PSR000001	28.7327	28.8547	28.8074	6.0094e-02	7.5345e-01
104	PFM000001	15.0886	15.6380	15.3745	1.2624e-01	5.0148e-01
105	PAN000136	-25.7838	-18.4596	-22.7383	1.7420e+00	4.9203e+00
106	PFM000002	16.1709	16.7917	16.4911	1.4676e-01	2.0421e-01
107	EMPTY	0.0000	0.0049	0.0047	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-9.0137	-9.5863	1.9773e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1827e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.4357	0.1502	0.0028	1.0941e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0531	6.8582e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0247	1.0548e-01	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0851	1.1319e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0233	1.1117e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0056	1.0806e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1814	1.0636e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1794	1.2544e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	-0.0826	1.0361e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2239	2.4037e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3043	2.4618e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1662	2.6828e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.7184e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3740e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.0803e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0150	3.7075e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0484	1.1248e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0136	8.8965e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0387	1.0731e-01	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0497	1.0424e-01	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0156	1.1146e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0827	1.0836e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0518	1.0486e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0548	1.0625e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0319	1.0044e-01	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0648	1.0424e-01	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0009	7.8092e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0125	9.1482e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	7.9328e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0598	9.3412e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0319	9.2189e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0338	6.9053e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0406	1.3466e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0406	9.5812e-02	4.1000e+00
146	IHT000019	-0.4507	-0.0601	-0.1358	1.0409e-01	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0282	7.2937e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0507	7.2937e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1107	9.8648e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0728	7.9532e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0527	1.0836e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0960	1.0299e-01	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0474	7.5986e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0540	8.5810e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0462	1.0731e-01	4.1000e+00

Test: May01_10

sum2

Date: Tue May 1 12:06:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0171	8.6187e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0816	9.7656e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0356	1.0640e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0073	7.4477e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0080	6.8582e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0534	9.6990e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0541	9.8483e-02	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0319	7.2937e-02	4.1000e+00

Test: May01_10 dif Date: Tue May 1 12:06:11 1990 Page: 1

Velocity 1 = 0.015301 (ft/sec)

Velocity 2 = 0.009800 (ft/sec)

Pressure Drop = 0.006700 (psi)

Tsat in = 0.118698 (deg F) Tsat out = 0.107407 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0003	0.0004
1	TRF000002	0.0146	0.0195
2	TFM000001	0.0046	0.0053
3	TIN000001	0.0084	0.0097
4	TRV000001	0.0363	0.0420
5	TSR000001	0.0223	0.0257
6	TAO020136	0.0061	0.0070
7	TAO050136	0.0015	0.0017
8	TAO070136	0.0222	0.0261
9	TAO080136	0.0053	0.0061
10	TAO090136	0.0153	0.0176
11	TAO100136	0.0397	0.0458
12	TAO105136	0.0110	0.0126
13	TAO110136	0.0113	0.0133
14	TAO115136	0.0424	0.0489
15	TAO120136	0.0203	0.0235
16	TAO125136	0.0183	0.0211
17	TAO130136	0.0036	0.0042
18	TAO120048	0.0081	0.0094
19	TAO130048	0.0112	0.0130
20	TAO120224	0.0078	0.0090
21	TAO130224	0.0071	0.0082
22	TAO120312	0.0041	0.0047
23	TAO130312	0.0013	0.0015
24	TRT020000	0.0480	0.0552
25	TRT070000	0.0123	0.0142
26	TRT100000	0.0320	0.0368
27	TRT120000	0.0139	0.0160
28	TRT125000	0.0254	0.0293
29	TRT130000	0.0113	0.0131
30	EMPTY	0.0799	0.2017
31	TAF050136	0.0525	0.0604
32	TAF070136	0.0112	0.0128
33	TAF080136	0.0058	0.0067
34	TAF090136	0.1000	0.1178
35	TAF100136	0.0084	0.0097
36	TAF105136	0.0211	0.0243
37	TAF110136	0.0047	0.0054
38	TAF115136	0.0839	0.0965
39	TAF120136	0.0261	0.0301
40	TAF125136	0.0490	0.0564
41	TAF130136	0.0135	0.0156
42	TAF120048	0.0138	0.0159
43	TAF130048	0.0218	0.0252
44	TAF120224	0.0025	0.0029
45	TAF130224	0.0247	0.0287

#	Name	Abs Diff	%Diff
46	EMPTY	0.0911	0.2389
47	EMPTY	0.0460	0.1174
48	TAI130138	0.0226	0.0260
49	TAI130226	0.0569	0.0660
50	TAI130314	0.0351	0.0404
51	TAI130042	0.0025	0.0029
52	TRR130090	0.0059	0.0068
53	TSI000001	0.0132	0.0161
54	TSI000002	0.0747	0.1025
55	TSO000001	0.0521	0.0754
56	TSO000002	0.0701	0.0882
57	TAF020136	0.0174	0.0202
58	TAF120312	0.0168	0.0194
59	TAF130312	0.0052	0.0061
60	EMPTY	0.0004	0.0871
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0001	0.0205
63	EMPTY	0.0003	0.0596
64	EMPTY	0.0001	0.0310
65	EMPTY	0.0001	0.0292
66	EMPTY	0.0005	0.1390
67	EMPTY	0.0007	0.1859
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0003	0.0732
70	EMPTY	0.0003	0.0706
71	EMPTY	0.0004	0.0891
72	EMPTY	0.0002	0.0431
73	EMPTY	0.0003	0.0621
74	EMPTY	0.0003	0.0602
75	EMPTY	0.0002	0.0386
76	EMPTY	0.0002	0.0376
77	EMPTY	0.0001	0.0181
78	EMPTY	0.0003	0.0523
79	EMPTY	0.0005	0.0837
80	PAN020136	0.0095	0.3470
81	PAN050136	0.1189	1.8564
82	PAN070136	0.0288	0.8458
83	PAN080136	1.0294	35.1044
84	PAN090136	0.9181	56.9824
85	PAN100136	0.0013	0.0900
86	PAN105136	0.0179	1.7904
87	PAN110136	0.0084	1.0274
88	PAN115136	0.0441	7.7450
89	PAN120136	0.0438	2.3121
90	PAN125136	0.0008	0.0700
91	PAN130136	0.0063	0.7930
92	PAN120048	0.0067	0.3664
93	PAN130048	0.0167	1.1177
94	PAN120224	0.0175	1.0515
95	PAN130224	0.0000	0.0000
96	PAN120312	0.0230	0.9533
97	PAN130312	0.0048	0.3458
98	PAB000136	0.0580	0.2066
99	PAB100136	0.0566	0.1973
100	PAB125136	0.0537	0.1860

Test: May01_10

dif

Date: Tue May 1 12:06:11 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0290	0.1039
102	PRV000001	0.0605	0.2269
103	PSR000001	0.0674	0.2345
104	PFM000001	0.0474	0.3074
105	PAN000136	0.1863	0.8261
106	PFM000002	0.0315	0.1906
107	EMPTY	0.0001	2.1739
108	EMPTY	0.0213	0.2227
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0029	50.8772
113	VPW000002	0.0314	144.7005
114	VPW000003	0.0151	157.2917
115	VPW000004	0.0100	13.3156
116	VPW000005	0.0167	41.7500
117	VPW000006	0.0241	130.2703
118	IPW000001	0.1371	10.3982
119	IPW000002	0.3281	64.6502
120	IPW000003	0.1067	442.7386
121	IPW000004	0.0428	16.0480
122	IPW000005	0.0735	19.4547
123	IPW000006	0.0869	109.5839
124	EMPTY	0.0013	6.4357
125	EMPTY	0.0002	1.4286
126	EMPTY	0.0009	5.3254
127	EMPTY	0.0003	2.0408
128	IHT000001	0.0040	7.6336
129	IHT000002	0.0382	73.7452
130	IHT000003	0.0004	1.0444
131	IHT000004	0.0120	31.8302
132	IHT000005	0.0103	39.7683
133	IHT000006	0.0208	20.0966
134	IHT000007	0.0055	9.5986
135	IHT000008	0.0490	844.8276
136	IHT000009	0.0241	43.0357
137	IHT000010	0.0082	14.4876
138	IHT000011	0.0120	108.1081
139	IHT000012	0.0048	27.7457
140	IHT000013	0.0155	27.9783
141	IHT000014	0.0197	24.7799
142	IHT000015	0.0046	16.8498
143	IHT000016	0.0117	52.9412
144	IHT000017	0.0237	36.8585
145	IHT000018	0.0050	14.0450
146	IHT000019	0.0288	26.9159
147	IHT000020	0.0150	113.6364
148	IHT000021	0.0007	1.3619
149	IHT000022	0.0059	5.0600
150	IHT000023	0.0148	25.5173
151	IHT000024	0.0129	19.6646
152	IHT000025	0.0086	9.8398
153	IHT000026	0.0044	8.4942
154	IHT000027	0.0240	80.0000
155	IHT000028	0.0231	33.3333

Test: May01_10 dif Date: Tue May 1 12:06:11 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0007	4.2683
157	IHT000030	0.0016	1.9231
158	IHT000031	0.0059	14.2169
159	IHT000032	0.0157	68.2609
160	IHT000033	0.0197	168.3761
161	IHT000034	0.0406	317.1875
162	IHT000035	0.0252	87.1972
163	IHT000036	0.0163	104.4872

Velocity 1 = 8.0954 (ft/sec) (+/- 3.0181 %)
Velocity 2 = 8.5296 (ft/sec) (+/- 1.8593 %)
Pressure drop = -2.2802 (psi)
Tsats in = 243.3227 (deg F) Tsats out = 247.8258 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 16233.7402 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4303.8262 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 17.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.8158	1.8420e-01	1.9000e+00
1	TRF000002	74.8621	75.0738	75.0060	9.9723e-02	1.9000e+00
2	TFM000001	86.2072	87.0466	86.5472	1.8545e-01	1.9002e+00
3	TIN000001	85.9361	86.4622	86.2432	1.3585e-01	1.9002e+00
4	TRV000001	86.0382	86.8772	86.4029	2.2908e-01	1.9002e+00
5	TSR000001	86.3816	87.0114	86.6918	1.7331e-01	1.9002e+00
6	TAO020136	86.4214	87.3677	86.8293	2.4374e-01	1.9002e+00
7	TAO050136	86.3944	87.0225	86.7207	1.6623e-01	1.9002e+00
8	TAO070136	84.8288	85.5668	85.1745	1.8698e-01	1.9002e+00
9	TAO080136	86.2855	86.9130	86.5330	1.5379e-01	1.9002e+00
10	TAO090136	86.3599	87.0946	86.7335	1.9325e-01	1.9002e+00
11	TAO100136	86.3288	86.8540	86.5431	1.5002e-01	1.9002e+00
12	TAO105136	86.7140	87.5553	87.1597	2.1514e-01	1.9002e+00
13	TAO110136	84.6539	85.3868	85.0057	1.7166e-01	1.9002e+00
14	TAO115136	86.2728	87.1150	86.7444	2.1296e-01	1.9002e+00
15	TAO120136	86.1130	86.6368	86.4393	1.3502e-01	1.9002e+00
16	TAO125136	86.5065	87.0316	86.6915	1.5670e-01	1.9002e+00
17	TAO130136	86.0405	86.6682	86.3739	1.4934e-01	1.9002e+00
18	TAO120048	86.2449	86.8750	86.5389	1.6439e-01	1.9002e+00
19	TAO130048	85.8651	86.5988	86.2382	1.3944e-01	1.9002e+00
20	TAO120224	86.0648	86.8001	86.4261	1.6192e-01	1.9002e+00
21	TAO130224	86.2847	86.7057	86.4404	1.1494e-01	1.9002e+00
22	TAO120312	86.0949	86.8306	86.3640	2.0165e-01	1.9002e+00
23	TAO130312	86.0307	86.6612	86.2618	1.6014e-01	1.9002e+00
24	TRT020000	86.3942	87.3414	86.8320	2.0332e-01	1.9002e+00
25	TRT070000	86.3589	86.9912	86.6794	1.5202e-01	1.9002e+00
26	TRT100000	86.5153	87.3548	86.9388	1.9641e-01	1.9002e+00
27	TRT120000	86.4257	87.0563	86.6652	1.5887e-01	1.9002e+00
28	TRT125000	86.3947	87.1272	86.6796	1.7323e-01	1.9002e+00
29	TRT130000	86.0919	86.7222	86.4693	1.3083e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6791	2.0447e-01	1.9011e+00
31	TAF050136	86.4995	87.1282	86.7967	1.4276e-01	1.9002e+00
32	TAF070136	86.8130	87.7547	87.2484	2.0436e-01	1.9002e+00
33	TAF080136	86.3380	87.0681	86.6804	1.5545e-01	1.9002e+00
34	TAF090136	84.2610	85.3112	84.8409	2.7367e-01	1.9001e+00
35	TAF100136	86.1922	87.0339	86.5288	1.8035e-01	1.9002e+00
36	TAF105136	86.1192	87.0592	86.6579	2.4966e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.3850	1.6538e-01	1.9002e+00
38	TAF115136	86.4916	87.3316	86.9574	2.0019e-01	1.9002e+00
39	TAF120136	86.3133	86.9434	86.6530	1.4322e-01	1.9002e+00
40	TAF125136	86.3966	87.4409	86.8631	2.4235e-01	1.9002e+00
41	TAF130136	86.3989	86.9241	86.6258	1.5204e-01	1.9002e+00
42	TAF120048	86.5507	87.5004	87.0026	2.2476e-01	1.9002e+00
43	TAF130048	86.2230	86.9580	86.5506	1.8579e-01	1.9002e+00
44	TAF120224	86.2946	87.0303	86.6771	2.2343e-01	1.9002e+00
45	TAF130224	85.6646	86.6143	86.1288	1.8823e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.0380e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130138	86.2954	87.4513	86.8669	3.1836e-01	1.9002e+00
49	TAI130226	85.7282	86.5679	86.1728	2.0385e-01	1.9002e+00
50	TAI130314	86.3358	87.4928	86.8365	3.2758e-01	1.9002e+00
51	TAI130042	85.7125	86.5532	86.1914	2.2592e-01	1.9002e+00
52	TRR130090	85.8093	86.8583	86.3128	2.4622e-01	1.9002e+00
53	TSI000001	81.8005	82.4333	82.0366	1.5440e-01	1.9001e+00
54	TSI000002	72.0913	73.2577	72.5792	3.0668e-01	1.9000e+00
55	TSO000001	68.1564	68.9049	68.5585	1.8909e-01	1.9000e+00
56	TSO000002	79.2554	80.2057	79.6482	1.8358e-01	1.9001e+00
57	TAF020136	85.7094	86.4481	86.0050	1.6236e-01	1.9002e+00
58	TAF120312	86.0062	86.8462	86.4304	2.5175e-01	1.9002e+00
59	TAF130312	85.5858	86.3204	85.9007	1.5736e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4593	1.1714e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
62	EMPTY	0.4834	0.4932	0.4881	1.3811e-03	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5032	1.1714e-03	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3225	1.3811e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3423	1.4797e-03	0.0000e+00
66	EMPTY	0.3564	0.3662	0.3604	2.2058e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3770	1.9730e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3910	1.3381e-03	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4101	6.9053e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4252	1.3381e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4495	1.1714e-03	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4987	1.7115e-03	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5993	2.1635e-03	0.0000e+00
80	PAN020136	-9.2915	-6.6975	-7.8725	5.2813e-01	8.7022e-01
81	PAN050136	-17.0586	-14.1594	-15.7524	6.5985e-01	1.6805e+00
82	PAN070136	-10.9229	-9.0156	-9.9891	4.3393e-01	8.7036e-01
83	PAN080136	-5.6897	-4.9267	-5.3433	1.5810e-01	8.7010e-01
84	PAN090136	-5.6060	-5.0719	-5.3878	9.8708e-02	8.7010e-01
85	PAN100136	-4.9663	-4.5848	-4.7451	1.0595e-01	8.7008e-01
86	PAN105136	-2.6401	-2.4112	-2.5272	7.4306e-02	8.7002e-01
87	PAN110136	-2.5418	-2.2366	-2.3785	7.0651e-02	8.7002e-01
88	PAN115136	-2.4524	-2.0709	-2.2464	8.0462e-02	8.7002e-01
89	PAN120136	-3.4294	-3.0479	-3.2524	9.1760e-02	8.7004e-01
90	PAN125136	-3.0920	-2.7105	-2.9196	7.8307e-02	8.7003e-01
91	PAN130136	-2.5462	-2.1647	-2.3493	8.9995e-02	8.7002e-01
92	PAN120048	-5.2392	-4.6288	-4.9050	1.2126e-01	8.7009e-01
93	PAN130048	-5.1776	-4.5673	-4.8877	1.1939e-01	8.7009e-01
94	PAN120224	-5.0808	-4.5467	-4.8595	1.1865e-01	8.7008e-01
95	PAN130224	-4.8122	-4.4308	-4.6444	9.8696e-02	8.7008e-01
96	PAN120312	-5.7101	-5.3287	-5.5224	1.0364e-01	8.7011e-01
97	PAN130312	-4.8884	-4.5070	-4.7282	1.0482e-01	8.7008e-01
98	PAB000136	26.2452	26.7945	26.5080	1.1320e-01	5.8377e-01
99	PAB100136	28.1062	28.2893	28.1868	4.4890e-02	5.8426e-01
100	PAB125136	28.6141	28.7972	28.6709	3.7635e-02	5.8441e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9931	26.8476	26.3251	1.9268e-01	7.5288e-01
102	PRV000001	26.5800	26.7021	26.6215	5.8413e-02	7.5295e-01
103	PSR000001	28.6106	28.8547	28.7620	5.8152e-02	7.5344e-01
104	PFM000001	9.6870	10.2363	9.9489	1.4088e-01	5.0062e-01
105	PAN000136	-68.3558	-57.3695	-63.1281	2.0179e+00	4.9225e+00
106	PFM000002	10.6671	11.3886	11.0577	1.6639e-01	2.0190e-01
107	EMPTY	-0.0049	0.0049	0.0030	2.5894e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1504	-9.4775	2.0959e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0213	1.0145e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	7.7324e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0214	9.1354e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0634	1.0559e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0360	8.8233e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0323	1.0625e-01	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.4747	1.0988e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.2733	1.0250e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.0241	1.3325e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2081	2.6267e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2704	2.7899e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0305	2.9413e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0485	9.6332e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0383	5.9189e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0494	6.6498e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0102	9.4702e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.1231	6.4113e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0410	7.8523e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	7.8523e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0251	9.9512e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0632	8.6810e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0560	1.0410e-01	4.1000e+00
142	IHT000015	-0.1953	0.3906	0.0391	1.1161e-01	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0221	6.1257e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0917	1.2478e-01	4.1000e+00
145	IHT000018	-0.3794	0.2066	-0.0512	1.2750e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1226	1.0763e-01	4.1000e+00
147	IHT000020	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0279	9.6976e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1088	9.8569e-02	4.1000e+00
150	IHT000023	-0.3080	0.0826	-0.0345	1.0440e-01	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0696	1.0106e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0992	8.8233e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0675	6.2265e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0652	7.5798e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0302	1.0052e-01	4.1000e+00

Test: May01_11

sum1

Date: Tue May 1 12:09:49 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.3718	0.0085	8.8321e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0598	1.1975e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0258	1.1942e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0152	8.3612e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0117	9.9902e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0557	1.1897e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0171	9.6976e-02	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00

Test: May01_11

sum2

Date: Tue May 1 12:09:49 1990

Page: 1

Velocity 1 = 8.0908 (ft/sec) (+/- 3.0205 %)
Velocity 2 = 8.5421 (ft/sec) (+/- 1.8582 %)
Pressure drop = -2.2811 (psi)
Tsat in = 243.2034 (deg F) Tsat out = 247.6907 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 17401.1328 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4724.9941 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.0626	74.9019	1.4749e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.0392	1.3206e-01	1.9000e+00
2	TFM000001	86.3126	86.8371	86.6079	1.4782e-01	1.9002e+00
3	TIN000001	86.0409	86.4622	86.2882	1.2807e-01	1.9002e+00
4	TRV000001	86.1436	86.8767	86.4705	1.7299e-01	1.9002e+00
5	TSR000001	86.4864	87.2196	86.7412	1.4812e-01	1.9002e+00
6	TAO020136	86.5263	87.3677	86.9278	1.9155e-01	1.9002e+00
7	TAO050136	86.2895	87.2311	86.7555	1.8265e-01	1.9002e+00
8	TAO070136	84.7227	85.5674	85.2116	2.0504e-01	1.9002e+00
9	TAO080136	86.1816	86.8098	86.5938	1.6605e-01	1.9002e+00
10	TAO090136	86.2557	87.1987	86.7969	1.7305e-01	1.9002e+00
11	TAO100136	86.3288	86.9588	86.6076	1.5973e-01	1.9002e+00
12	TAO105136	86.7140	87.6602	87.2247	2.1457e-01	1.9002e+00
13	TAO110136	84.8624	85.3868	85.0985	1.5195e-01	1.9002e+00
14	TAO115136	86.3782	87.2204	86.8228	2.1405e-01	1.9002e+00
15	TAO120136	86.2184	86.7416	86.5061	1.3260e-01	1.9002e+00
16	TAO125136	86.4017	87.1364	86.7596	1.6856e-01	1.9002e+00
17	TAO130136	86.1453	86.6677	86.4197	1.3240e-01	1.9002e+00
18	TAO120048	86.2449	86.9798	86.5965	1.5681e-01	1.9002e+00
19	TAO130048	85.9705	86.5988	86.2932	1.2460e-01	1.9002e+00
20	TAO120224	86.0648	86.8001	86.4765	1.5438e-01	1.9002e+00
21	TAO130224	86.2847	86.9131	86.5121	1.2354e-01	1.9002e+00
22	TAO120312	86.1998	86.8306	86.4553	1.7424e-01	1.9002e+00
23	TAO130312	86.0307	87.1837	86.3053	1.9240e-01	1.9002e+00
24	TRT020000	86.3942	87.2361	86.8624	2.2840e-01	1.9002e+00
25	TRT070000	86.3589	87.0966	86.7375	1.6086e-01	1.9002e+00
26	TRT100000	86.5153	87.2494	86.9520	2.1530e-01	1.9002e+00
27	TRT120000	86.4257	86.9509	86.7344	1.6374e-01	1.9002e+00
28	TRT125000	86.3947	87.1272	86.7540	1.6520e-01	1.9002e+00
29	TRT130000	86.1973	86.9308	86.5073	1.4194e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.7181	2.0488e-01	1.9011e+00
31	TAF050136	86.4995	87.2329	86.8393	1.7709e-01	1.9002e+00
32	TAF070136	86.8130	87.6508	87.2832	2.0714e-01	1.9002e+00
33	TAF080136	86.4414	87.0700	86.7496	1.6033e-01	1.9002e+00
34	TAF090136	84.2610	85.4166	84.9772	2.7591e-01	1.9002e+00
35	TAF100136	86.2971	86.9285	86.5657	1.7313e-01	1.9002e+00
36	TAF105136	86.2240	87.2673	86.6440	2.3558e-01	1.9002e+00
37	TAF110136	86.0619	86.7955	86.4218	1.7114e-01	1.9002e+00
38	TAF115136	86.5964	87.4357	87.0013	1.9385e-01	1.9002e+00
39	TAF120136	86.3133	86.8380	86.7115	1.2305e-01	1.9002e+00
40	TAF125136	86.2912	87.4403	86.8519	2.6998e-01	1.9002e+00
41	TAF130136	86.3989	87.0288	86.6906	1.7572e-01	1.9002e+00
42	TAF120048	86.4453	87.3951	87.0094	2.1497e-01	1.9002e+00
43	TAF130048	86.3279	87.0628	86.6089	1.6512e-01	1.9002e+00
44	TAF120224	86.3994	87.1350	86.7021	1.6284e-01	1.9002e+00
45	TAF130224	85.8749	86.4030	86.1683	1.3830e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0866	2.0893e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1839	1.0839e-01	1.9010e+00
48	TAI130138	86.1905	87.5558	86.9323	3.2532e-01	1.9002e+00
49	TAI130226	85.8337	86.7765	86.2590	2.0561e-01	1.9002e+00
50	TAI130314	86.3358	87.4928	86.8982	2.7958e-01	1.9002e+00
51	TAI130042	85.9221	86.6580	86.2678	1.7426e-01	1.9002e+00
52	TRR130090	85.7044	86.8583	86.3383	2.3246e-01	1.9002e+00
53	TSI000001	81.8005	82.4328	82.0889	1.3388e-01	1.9001e+00
54	TSI000002	72.1979	73.2577	72.6543	2.4302e-01	1.9000e+00
55	TSO000001	68.1564	69.0113	68.5621	1.7595e-01	1.9000e+00
56	TSO000002	79.2554	80.2057	79.7770	2.0030e-01	1.9001e+00
57	TAF020136	85.7099	86.5529	86.1229	1.8243e-01	1.9002e+00
58	TAF120312	86.0067	86.8462	86.4927	2.4296e-01	1.9002e+00
59	TAF130312	85.7953	86.3204	85.9844	1.4364e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4594	1.3508e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9754e-04	0.0000e+00
62	EMPTY	0.4883	0.4980	0.4886	1.5467e-03	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5034	1.4934e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3222	6.9754e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3422	1.3508e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3602	2.0584e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3768	1.8234e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.7615e-04	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4199	0.4297	0.4249	1.2165e-03	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4640	6.9754e-04	0.0000e+00
73	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4983	1.1827e-03	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5175	6.9754e-04	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5756	1.6172e-03	0.0000e+00
79	EMPTY	0.5957	0.6055	0.5989	2.5510e-03	0.0000e+00
80	PAN020136	-8.8338	-7.0790	-7.9447	4.1513e-01	8.7023e-01
81	PAN050136	-16.9060	-14.7698	-15.8192	4.7811e-01	1.6805e+00
82	PAN070136	-10.6941	-9.0156	-9.9264	3.7129e-01	8.7035e-01
83	PAN080136	-5.7660	-5.0793	-5.3985	1.5312e-01	8.7010e-01
84	PAN090136	-5.5297	-5.0719	-5.3179	1.0361e-01	8.7010e-01
85	PAN100136	-4.9663	-4.5848	-4.7717	8.3954e-02	8.7008e-01
86	PAN105136	-2.6401	-2.4112	-2.5311	7.3046e-02	8.7002e-01
87	PAN110136	-2.5418	-2.3892	-2.4546	6.2294e-02	8.7002e-01
88	PAN115136	-2.4524	-2.0709	-2.2515	8.3422e-02	8.7002e-01
89	PAN120136	-3.4294	-3.1242	-3.2519	7.3687e-02	8.7004e-01
90	PAN125136	-3.0920	-2.7868	-2.9238	7.1332e-02	8.7003e-01
91	PAN130136	-2.5462	-2.2410	-2.3578	7.8026e-02	8.7002e-01
92	PAN120048	-5.2392	-4.7051	-4.9449	1.0330e-01	8.7009e-01
93	PAN130048	-5.1013	-4.6435	-4.8678	1.0835e-01	8.7009e-01
94	PAN120224	-5.0808	-4.6230	-4.8534	9.5354e-02	8.7008e-01
95	PAN130224	-4.8122	-4.4308	-4.6394	8.6395e-02	8.7008e-01
96	PAN120312	-5.7101	-5.3287	-5.5762	9.4127e-02	8.7011e-01
97	PAN130312	-4.8122	-4.5070	-4.6409	9.7915e-02	8.7008e-01
98	PAB000136	26.2910	26.7487	26.4526	9.8933e-02	5.8376e-01
99	PAB100136	28.0604	28.1978	28.1296	4.6835e-02	5.8425e-01
100	PAB125136	28.5226	28.6599	28.6038	4.5070e-02	5.8439e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.8710	26.7255	26.2497	1.6003e-01	7.5287e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7439e-02	7.5296e-01
103	PSR000001	28.6106	28.7327	28.7252	2.9569e-02	7.5343e-01
104	PFM000001	9.5955	10.1448	9.9374	1.3317e-01	5.0062e-01
105	PAN000136	-66.5247	-58.7428	-63.1522	1.6122e+00	4.9225e+00
106	PFM000002	10.8517	11.3215	11.0904	1.0391e-01	2.0191e-01
107	EMPTY	-0.0049	0.0049	0.0029	2.6216e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1797	-9.5872	1.7249e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0052	8.8965e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0491	9.3412e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	-0.0048	8.4860e-02	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0771	1.0640e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0193	9.7656e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0136	1.0533e-01	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.5799	1.0696e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	0.0997	1.3833e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.3213	1.1258e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2837	2.5944e-01	2.0000e+00
122	IPW000005	-1.0516	-0.0751	-0.4139	3.0235e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1662	2.8619e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.8602e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.5748e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0177	2.9388e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0144	2.9833e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0404	7.8092e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0176	9.1482e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0507	7.2937e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0378	9.3412e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0037	1.0076e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0947	8.7123e-02	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0518	1.0486e-01	4.1000e+00
135	IHT000008	-0.2442	0.1465	0.0309	1.0486e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0519	7.3601e-02	4.1000e+00
137	IHT000010	-0.1465	0.0488	0.0289	5.9734e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	3.9868e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0284	8.9148e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0828	4.8662e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0718	7.9328e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0199	5.9734e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0218	4.7310e-02	4.1000e+00
144	IHT000017	-0.2479	0.1427	-0.0566	1.1616e-01	4.1000e+00
145	IHT000018	-0.1841	0.0113	-0.0286	7.9532e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1199	1.0701e-01	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0123	8.4860e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0507	8.3122e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1147	9.8648e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0688	8.2338e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0686	1.0188e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.1000	1.0533e-01	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0474	6.4688e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0540	7.5986e-02	4.1000e+00
155	IHT000028	-0.2216	0.3643	-0.0462	1.2122e-01	4.1000e+00

Test: May01_11 sum2 Date: Tue May 1 12:09:49 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0091	6.9053e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0776	9.8153e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0316	9.8483e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0232	8.3705e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0080	6.8582e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0455	1.0315e-01	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0183	8.9148e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	-0.0080	6.8582e-02	4.1000e+00

Test: May01_11 dif Date: Tue May 1 12:09:49 1990 Page: 1

Velocity 1 = 0.004600 (ft/sec)

Velocity 2 = 0.012500 (ft/sec)

Pressure Drop = 0.000900 (psi)

Tsat in = 0.119293 (deg F) Tsat out = 0.135101 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0861	0.1151
1	TRF000002	0.0332	0.0443
2	TFM000001	0.0607	0.0701
3	TIN000001	0.0450	0.0522
4	TRV000001	0.0676	0.0782
5	TSR000001	0.0494	0.0570
6	TAO020136	0.0985	0.1134
7	TAO050136	0.0348	0.0401
8	TAO070136	0.0371	0.0436
9	TAO080136	0.0608	0.0703
10	TAO090136	0.0634	0.0731
11	TAO100136	0.0645	0.0745
12	TAO105136	0.0650	0.0746
13	TAO110136	0.0928	0.1092
14	TAO115136	0.0784	0.0904
15	TAO120136	0.0668	0.0773
16	TAO125136	0.0681	0.0786
17	TAO130136	0.0458	0.0530
18	TAO120048	0.0576	0.0666
19	TAO130048	0.0550	0.0638
20	TAO120224	0.0504	0.0583
21	TAO130224	0.0717	0.0829
22	TAO120312	0.0913	0.1057
23	TAO130312	0.0435	0.0504
24	TRT020000	0.0304	0.0350
25	TRT070000	0.0581	0.0670
26	TRT100000	0.0132	0.0152
27	TRT120000	0.0692	0.0798
28	TRT125000	0.0744	0.0858
29	TRT130000	0.0380	0.0439
30	EMPTY	0.0390	0.0983
31	TAF050136	0.0426	0.0491
32	TAF070136	0.0348	0.0399
33	TAF080136	0.0692	0.0798
34	TAF090136	0.1363	0.1607
35	TAF100136	0.0369	0.0426
36	TAF105136	0.0139	0.0160
37	TAF110136	0.0368	0.0426
38	TAF115136	0.0439	0.0505
39	TAF120136	0.0585	0.0675
40	TAF125136	0.0112	0.0129
41	TAF130136	0.0648	0.0748
42	TAF120048	0.0068	0.0078
43	TAF130048	0.0583	0.0674
44	TAF120224	0.0250	0.0288
45	TAF130224	0.0395	0.0459

#	Name	Abs Diff	%Diff
46	EMPTY	0.0258	0.0677
47	EMPTY	0.0039	0.0100
48	TAI130138	0.0654	0.0753
49	TAI130226	0.0862	0.1000
50	TAI130314	0.0617	0.0711
51	TAI130042	0.0764	0.0886
52	TRR130090	0.0255	0.0295
53	TSI000001	0.0523	0.0638
54	TSI000002	0.0751	0.1035
55	TSO000001	0.0036	0.0053
56	TSO000002	0.1288	0.1617
57	TAF020136	0.1179	0.1371
58	TAF120312	0.0623	0.0721
59	TAF130312	0.0837	0.0974
60	EMPTY	0.0001	0.0218
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0005	0.1024
63	EMPTY	0.0002	0.0398
64	EMPTY	0.0003	0.0930
65	EMPTY	0.0001	0.0292
66	EMPTY	0.0002	0.0555
67	EMPTY	0.0002	0.0531
68	EMPTY	0.0002	0.0512
69	EMPTY	0.0001	0.0244
70	EMPTY	0.0003	0.0706
71	EMPTY	0.0003	0.0667
72	EMPTY	0.0001	0.0216
73	EMPTY	0.0001	0.0207
74	EMPTY	0.0004	0.0802
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0004	0.0694
79	EMPTY	0.0004	0.0667
80	PAN020136	0.0722	0.9171
81	PAN050136	0.0668	0.4241
82	PAN070136	0.0627	0.6277
83	PAN080136	0.0552	1.0331
84	PAN090136	0.0699	1.2974
85	PAN100136	0.0266	0.5606
86	PAN105136	0.0039	0.1543
87	PAN110136	0.0761	3.1995
88	PAN115136	0.0051	0.2270
89	PAN120136	0.0005	0.0154
90	PAN125136	0.0042	0.1439
91	PAN130136	0.0085	0.3618
92	PAN120048	0.0399	0.8135
93	PAN130048	0.0199	0.4071
94	PAN120224	0.0061	0.1255
95	PAN130224	0.0050	0.1077
96	PAN120312	0.0538	0.9742
97	PAN130312	0.0873	1.8464
98	PAB000136	0.0554	0.2090
99	PAB100136	0.0572	0.2029
100	PAB125136	0.0671	0.2340

Test: May01_11

dif

Date: Tue May 1 12:09:49 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0754	0.2864
102	PRV000001	0.0781	0.2934
103	PSR000001	0.0368	0.1279
104	PFM000001	0.0115	0.1156
105	PAN000136	0.0241	0.0382
106	PFM000002	0.0327	0.2957
107	EMPTY	0.0001	3.3333
108	EMPTY	0.1097	1.1575
109	EMPTY	0.0004	200.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0265	124.4131
113	VPW000002	0.0196	66.4407
114	VPW000003	0.0166	77.5701
115	VPW000004	0.0137	21.6088
116	VPW000005	0.0167	46.3889
117	VPW000006	0.0187	57.8947
118	IPW000001	0.1052	7.1337
119	IPW000002	0.1736	63.5199
120	IPW000003	0.3454	1433.1951
121	IPW000004	0.0756	36.3287
122	IPW000005	0.1435	53.0695
123	IPW000006	0.1357	444.9180
124	EMPTY	0.0005	2.3365
125	EMPTY	0.0003	2.1277
126	EMPTY	0.0002	1.1429
127	EMPTY	0.0002	1.3699
128	IHT000001	0.0081	16.7010
129	IHT000002	0.0009	5.3892
130	IHT000003	0.0124	32.3760
131	IHT000004	0.0116	23.4818
132	IHT000005	0.0065	63.7255
133	IHT000006	0.0284	23.0707
134	IHT000007	0.0102	24.5192
135	IHT000008	0.0094	43.7209
136	IHT000009	0.0076	17.1558
137	IHT000010	0.0121	29.5122
138	IHT000011	0.0078	108.3333
139	IHT000012	0.0033	13.1474
140	IHT000013	0.0196	31.0127
141	IHT000014	0.0158	28.2143
142	IHT000015	0.0192	49.1049
143	IHT000016	0.0003	1.3575
144	IHT000017	0.0351	38.2770
145	IHT000018	0.0226	44.1406
146	IHT000019	0.0027	2.2023
147	IHT000020	0.0147	612.4999
148	IHT000021	0.0228	81.7204
149	IHT000022	0.0059	5.4228
150	IHT000023	0.0343	99.4203
151	IHT000024	0.0010	1.4368
152	IHT000025	0.0008	0.8065
153	IHT000026	0.0201	29.7778
154	IHT000027	0.0112	17.1779
155	IHT000028	0.0160	52.9801

Test: May01_11 dif Date: Tue May 1 12:09:49 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0006	7.0588
157	IHT000030	0.0178	29.7659
158	IHT000031	0.0058	22.4806
159	IHT000032	0.0080	52.6316
160	IHT000033	0.0037	31.6239
161	IHT000034	0.0102	18.3124
162	IHT000035	0.0012	7.0175
163	IHT000036	0.0353	129.3040

Velocity 1 = 6.1398 (ft/sec) (+/- 4.7077 %)
Velocity 2 = 6.7423 (ft/sec) (+/- 2.1240 %)
Pressure drop = -3.4908 (psi)
Tsats in = 240.1684 (deg F) Tsats out = 247.3077 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 18071.2715 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 8019.9341 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.0626	74.8966	1.6810e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.0695	1.2457e-01	1.9000e+00
2	TFM000001	86.3120	87.0466	86.7109	1.8840e-01	1.9002e+00
3	TIN000001	86.0409	86.6726	86.3863	1.4730e-01	1.9002e+00
4	TRV000001	86.0382	86.8767	86.4953	2.1231e-01	1.9002e+00
5	TSR000001	86.4870	87.2196	86.7925	1.4645e-01	1.9002e+00
6	TAO020136	86.4214	87.3677	86.8924	2.1890e-01	1.9002e+00
7	TAO050136	86.3944	87.2311	86.8339	1.7954e-01	1.9002e+00
8	TAO070136	84.8288	85.6717	85.2377	2.0390e-01	1.9002e+00
9	TAO080136	86.2855	86.9146	86.6211	1.6661e-01	1.9002e+00
10	TAO090136	86.3599	87.0946	86.7756	1.9869e-01	1.9002e+00
11	TAO100136	86.3288	86.8540	86.6104	1.3160e-01	1.9002e+00
12	TAO105136	86.8194	87.6602	87.2228	2.0188e-01	1.9002e+00
13	TAO110136	84.7588	85.3868	85.1064	1.5494e-01	1.9002e+00
14	TAO115136	86.2728	87.3251	86.8412	2.2409e-01	1.9002e+00
15	TAO120136	86.1130	86.8426	86.5150	1.6014e-01	1.9002e+00
16	TAO125136	86.5065	87.0316	86.7504	1.4918e-01	1.9002e+00
17	TAO130136	85.9386	86.6677	86.4000	1.6882e-01	1.9002e+00
18	TAO120048	86.2449	86.9798	86.5769	1.6208e-01	1.9002e+00
19	TAO130048	85.9700	86.5988	86.3013	1.3646e-01	1.9002e+00
20	TAO120224	86.0648	86.9049	86.4892	1.8252e-01	1.9002e+00
21	TAO130224	86.1814	86.7051	86.4952	1.3728e-01	1.9002e+00
22	TAO120312	86.0949	86.8306	86.4775	1.7603e-01	1.9002e+00
23	TAO130312	86.0307	86.5558	86.3124	1.5365e-01	1.9002e+00
24	TRT020000	86.4990	87.4462	86.9456	2.1638e-01	1.9002e+00
25	TRT070000	86.4638	86.9907	86.7551	1.4206e-01	1.9002e+00
26	TRT100000	86.6201	87.3542	87.0228	2.0137e-01	1.9002e+00
27	TRT12C000	86.4257	87.0557	86.7409	1.5150e-01	1.9002e+00
28	TRT125000	86.3947	87.0236	86.7428	1.7222e-01	1.9002e+00
29	TRT130000	86.1967	86.8260	86.5157	1.4685e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.0869e-01	1.9011e+00
31	TAF050136	86.3941	87.2329	86.8974	1.9412e-01	1.9002e+00
32	TAF070136	86.9178	87.7547	87.2781	2.1040e-01	1.9002e+00
33	TAF080136	86.4414	87.0700	86.7518	1.4485e-01	1.9002e+00
34	TAF090136	84.4709	85.5216	84.9503	2.7352e-01	1.9002e+00
35	TAF100136	86.1922	87.0333	86.5792	2.0092e-01	1.9002e+00
36	TAF105136	86.2240	87.1640	86.7335	2.2647e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.4439	1.5400e-01	1.9002e+00
38	TAF115136	86.4916	87.5405	86.9869	2.2525e-01	1.9002e+00
39	TAF120136	86.4181	86.9428	86.7287	1.4382e-01	1.9002e+00
40	TAF125136	86.3966	87.3355	86.8345	2.5040e-01	1.9002e+00
41	TAF130136	86.3989	87.0288	86.6973	1.7011e-01	1.9002e+00
42	TAF120048	86.6561	87.3951	87.0656	1.5618e-01	1.9002e+00
43	TAF130048	86.2230	86.8532	86.6053	1.7842e-01	1.9002e+00
44	TAF120224	86.3994	87.1350	86.7696	2.0050e-01	1.9002e+00
45	TAF130224	85.7695	86.5078	86.2088	1.9097e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.1911e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1786	9.2905e-02	1.9010e+00
48	TAI130138	86.2954	87.4507	86.9048	3.0146e-01	1.9002e+00
49	TAI130226	85.9376	86.7765	86.2652	1.9477e-01	1.9002e+00
50	TAI130314	86.3358	87.4928	86.9668	3.0205e-01	1.9002e+00
51	TAI130042	85.9221	86.7632	86.3134	2.1133e-01	1.9002e+00
52	TRR130090	86.0189	86.8583	86.4137	2.0279e-01	1.9002e+00
53	TSI000001	81.5901	82.4328	82.0369	1.5440e-01	1.9001e+00
54	TSI000002	71.8793	73.1520	72.5371	2.4329e-01	1.9000e+00
55	TSO000001	68.0486	68.7972	68.3783	1.9782e-01	1.9000e+00
56	TSO000002	79.2554	79.9948	79.5893	1.7119e-01	1.9001e+00
57	TAF020136	85.8148	86.5529	86.1103	1.4911e-01	1.9002e+00
58	TAF120312	86.0062	87.0559	86.4389	2.6022e-01	1.9002e+00
59	TAF130312	85.5858	86.3204	86.0057	1.9198e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
62	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3220	1.5314e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3572	1.8082e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3761	6.9053e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4099	1.1714e-03	0.0000e+00
70	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4832	9.6655e-04	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5168	1.8082e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5723	1.9730e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5964	1.7115e-03	0.0000e+00
80	PAN020136	-12.8773	-11.5803	-12.2090	3.4416e-01	8.7054e-01
81	PAN050136	-24.8406	-22.7044	-23.9098	4.1042e-01	1.6811e+00
82	PAN070136	-16.0346	-14.5850	-15.2808	2.8573e-01	8.7084e-01
83	PAN080136	-8.3600	-7.8259	-8.0639	1.4675e-01	8.7023e-01
84	PAN090136	-7.8948	-7.5896	-7.7681	7.1653e-02	8.7022e-01
85	PAN100136	-7.6366	-7.2551	-7.4398	8.8666e-02	8.7020e-01
86	PAN105136	-4.0897	-3.7845	-3.8898	6.3346e-02	8.7005e-01
87	PAN110136	-3.9914	-3.7625	-3.8403	6.6279e-02	8.7005e-01
88	PAN115136	-3.8257	-3.5205	-3.6273	8.3005e-02	8.7005e-01
89	PAN120136	-4.7264	-4.4212	-4.5494	7.4625e-02	8.7007e-01
90	PAN125136	-4.4653	-4.1601	-4.3188	6.3253e-02	8.7007e-01
91	PAN130136	-3.8432	-3.5380	-3.7287	6.2135e-02	8.7005e-01
92	PAN120048	-7.6043	-7.2228	-7.3983	8.4775e-02	8.7020e-01
93	PAN130048	-7.6953	-7.3138	-7.5412	8.6495e-02	8.7020e-01
94	PAN120224	-7.8273	-7.3696	-7.5786	9.0941e-02	8.7021e-01
95	PAN130224	-7.6351	-7.2536	-7.4917	8.2489e-02	8.7020e-01
96	PAN120312	-8.3804	-8.0752	-8.2111	7.7514e-02	8.7024e-01
97	PAN130312	-7.4061	-7.1773	-7.2887	7.0987e-02	8.7019e-01
98	PAB000136	24.8719	25.2381	25.0761	8.3853e-02	5.8338e-01
99	PAB100136	27.6027	27.7858	27.6942	4.7157e-02	5.8412e-01
100	PAB125136	28.3395	28.4768	28.4145	4.2138e-02	5.8433e-01

Test: May01_12

sum1

Date: Tue May 1 12:12:28 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.6503	25.2607	24.9238	1.0907e-01	7.5258e-01
102	PRV000001	26.7021	26.7021	26.7021	1.9267e-06	7.5296e-01
103	PSR000001	28.6106	28.7327	28.7009	5.4088e-02	7.5342e-01
104	PFM000001	5.4756	5.8418	5.6807	8.9779e-02	5.0020e-01
105	PAN000136	-99.0260	-93.0750	-96.6456	1.3046e+00	4.9259e+00
106	PFM000002	6.7071	7.1937	6.8688	9.9920e-02	2.0074e-01
107	EMPTY	-0.0049	0.0049	-0.0009	3.3728e-03	0.0000e+00
108	EMPTY	-9.9512	-9.0332	-9.5245	2.3723e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0005	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.0451	0.1502	-0.0216	6.4113e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	0.0021	8.8585e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0673	1.1306e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0243	9.5112e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0028	1.0907e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.3575	1.1219e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.8197	1.1721e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	-0.0539	1.0453e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1593	2.4642e-01	2.0000e+00
122	IPW000005	-1.0516	-0.0751	-0.3680	2.6097e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0890	3.2434e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.4300e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.2603e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.1444e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.2658e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0485	7.8523e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0422	8.4997e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0299	7.3716e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0180	9.6655e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0762	9.4702e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0573	9.5765e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0599	4.8166e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0293	9.8648e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0307	6.6498e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0329	1.0168e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0945	7.7324e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0521	9.9902e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0391	8.8233e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0221	7.2866e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0565	1.5530e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0317	9.8963e-02	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1343	9.5765e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0132	8.4262e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0814	1.0145e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0656	9.5112e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0953	8.5454e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0635	3.8662e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	3.9459e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0575	1.1409e-01	4.1000e+00

Test: May01_12

sum1

Date: Tue May 1 12:12:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	9.0412e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0754	1.0595e-01	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0532	9.7377e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	8.8233e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0753	9.8569e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0367	1.0358e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0234	7.5283e-02	4.1000e+00

Test: May01_12

sum2

Date: Tue May 1 12:12:28 1990

Page: 1

Velocity 1 = 6.1340 (ft/sec) (+/- 4.7155 %)
Velocity 2 = 6.7367 (ft/sec) (+/- 2.1253 %)
Pressure drop = -3.4887 (psi)
Tsats in = 240.2725 (deg F) Tsats out = 247.3695 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 9623.9922 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4595.1387 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.8802	1.6822e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.0565	1.2841e-01	1.9000e+00
2	TFM000001	86.2072	87.0466	86.6442	1.8961e-01	1.9002e+00
3	TIN000001	86.0409	86.6726	86.3504	1.6271e-01	1.9002e+00
4	TRV000001	86.0382	86.7719	86.5109	1.6980e-01	1.9002e+00
5	TSR000001	86.4864	87.0114	86.7816	1.2971e-01	1.9002e+00
6	TAO020136	86.4214	87.2628	86.9042	2.3006e-01	1.9002e+00
7	TAO050136	86.3949	87.1273	86.7874	1.5935e-01	1.9002e+00
8	TAO070136	84.8288	85.6717	85.2094	2.0839e-01	1.9002e+00
9	TAO080136	86.2855	86.9151	86.6087	1.6405e-01	1.9002e+00
10	TAO090136	86.4648	87.1999	86.8204	1.7369e-01	1.9002e+00
11	TAO100136	86.3288	86.9588	86.6311	1.4633e-01	1.9002e+00
12	TAO105136	86.7139	87.6602	87.2139	2.2045e-01	1.9002e+00
13	TAO110136	84.7588	85.3868	85.0964	1.3914e-01	1.9002e+00
14	TAO115136	86.2728	87.2204	86.7604	2.3703e-01	1.9002e+00
15	TAO120136	86.1130	86.7421	86.5081	1.4860e-01	1.9002e+00
16	TAO125136	86.4017	87.1364	86.7232	1.4763e-01	1.9002e+00
17	TAO130136	86.1453	86.6677	86.4091	1.4160e-01	1.9002e+00
18	TAO120048	86.2449	86.8750	86.5815	1.5456e-01	1.9002e+00
19	TAO130048	85.8651	86.4953	86.2739	1.3770e-01	1.9002e+00
20	TAO120224	86.0648	86.9049	86.4914	1.7865e-01	1.9002e+00
21	TAO130224	86.1820	86.7057	86.4887	1.2751e-01	1.9002e+00
22	TAO120312	86.1998	86.8306	86.4489	1.7652e-01	1.9002e+00
23	TAO130312	86.1356	86.6606	86.3159	1.3034e-01	1.9002e+00
24	TRT020000	86.4990	87.3414	86.9074	2.1116e-01	1.9002e+00
25	TRT070000	86.4638	87.2020	86.7611	1.5304e-01	1.9002e+00
26	TRT100000	86.5153	87.3548	86.9541	1.9451e-01	1.9002e+00
27	TRT120000	86.4257	87.0557	86.7408	1.5889e-01	1.9002e+00
28	TRT125000	86.3947	87.1267	86.7561	1.8121e-01	1.9002e+00
29	TRT130000	86.1967	86.9308	86.5221	1.6486e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6291	2.0014e-01	1.9011e+00
31	TAF050136	86.4989	87.2335	86.9097	1.8017e-01	1.9002e+00
32	TAF070136	86.8130	87.6508	87.2981	2.0223e-01	1.9002e+00
33	TAF080136	86.4414	87.0706	86.7346	1.7361e-01	1.9002e+00
34	TAF090136	84.1560	85.5216	84.9022	2.9017e-01	1.9001e+00
35	TAF100136	86.1922	86.9285	86.5850	1.8933e-01	1.9002e+00
36	TAF105136	86.2240	87.1640	86.6970	2.4481e-01	1.9002e+00
37	TAF110136	86.0619	86.7955	86.4367	1.6166e-01	1.9002e+00
38	TAF115136	86.4916	87.5399	87.0248	2.2126e-01	1.9002e+00
39	TAF120136	86.3133	86.9434	86.7093	1.2174e-01	1.9002e+00
40	TAF125136	86.3948	87.4403	86.8922	2.4255e-01	1.9002e+00
41	TAF130136	86.3989	87.2383	86.6884	1.7074e-01	1.9002e+00
42	TAF120048	86.6568	87.5004	87.0676	2.2099e-01	1.9002e+00
43	TAF130048	86.3279	86.9580	86.6195	1.6357e-01	1.9002e+00
44	TAF120224	86.3994	87.0303	86.7257	1.5360e-01	1.9002e+00
45	TAF130224	85.8760	86.5089	86.1920	1.3777e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0913	1.9866e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1652	6.3526e-02	1.9010e+00
48	TAI130138	86.1905	87.6606	86.8915	3.1526e-01	1.9002e+00
49	TAI130226	85.8337	86.5679	86.2270	1.7323e-01	1.9002e+00
50	TAI130314	86.4406	87.5976	86.9433	2.8179e-01	1.9002e+00
51	TAI130042	85.9221	86.6580	86.2999	1.7814e-01	1.9002e+00
52	TRR130090	85.8098	86.7536	86.3660	2.1959e-01	1.9002e+00
53	TSI000001	81.6960	82.4328	82.0309	1.6192e-01	1.9001e+00
54	TSI000002	71.9860	73.1520	72.5440	2.8530e-01	1.9000e+00
55	TSO000001	68.0486	68.7980	68.4725	2.2376e-01	1.9000e+00
56	TSO000002	79.1497	79.9948	79.5164	2.0688e-01	1.9001e+00
57	TAF020136	85.8148	86.5529	86.0948	1.8582e-01	1.9002e+00
58	TAF120312	85.9013	86.9510	86.4777	2.6333e-01	1.9002e+00
59	TAF130312	85.6907	86.3204	85.9565	1.6616e-01	1.9002e+00
60	EMPTY	0.4541	0.4688	0.4591	1.5727e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9754e-04	0.0000e+00
62	EMPTY	0.4834	0.4883	0.4882	6.9754e-04	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5034	1.4934e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3220	1.1827e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9754e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3572	1.8234e-03	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3907	6.9754e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4099	1.1827e-03	0.0000e+00
70	EMPTY	0.4199	0.4248	0.4247	6.9754e-04	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4637	9.7615e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9754e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4981	6.9754e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5171	1.4934e-03	0.0000e+00
76	EMPTY	0.5273	0.5371	0.5322	9.9670e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5731	2.3783e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5966	1.9103e-03	0.0000e+00
80	PAN020136	-13.0299	-11.2752	-12.1642	3.2051e-01	8.7053e-01
81	PAN050136	-24.5354	-23.0095	-23.7880	3.3726e-01	1.6811e+00
82	PAN070136	-15.9583	-14.8139	-15.3604	2.7034e-01	8.7085e-01
83	PAN080136	-8.3600	-7.8259	-8.0268	1.3186e-01	8.7023e-01
84	PAN090136	-7.9711	-7.7422	-7.8154	7.2978e-02	8.7022e-01
85	PAN100136	-7.5603	-7.2551	-7.4311	7.8184e-02	8.7020e-01
86	PAN105136	-4.0134	-3.7082	-3.8935	6.4211e-02	8.7005e-01
87	PAN110136	-3.9914	-3.7625	-3.8606	6.9647e-02	8.7005e-01
88	PAN115136	-3.7494	-3.3679	-3.5765	8.3540e-02	8.7005e-01
89	PAN120136	-4.6501	-4.4975	-4.5785	5.9114e-02	8.7008e-01
90	PAN125136	-4.4653	-4.1601	-4.3330	5.9863e-02	8.7007e-01
91	PAN130136	-3.8432	-3.6143	-3.7389	6.1695e-02	8.7005e-01
92	PAN120048	-7.6043	-7.2228	-7.4034	8.9047e-02	8.7020e-01
93	PAN130048	-7.6953	-7.3901	-7.5490	7.9160e-02	8.7020e-01
94	PAN120224	-7.8273	-7.4459	-7.5767	8.3866e-02	8.7021e-01
95	PAN130224	-7.7114	-7.4062	-7.4950	8.1440e-02	8.7020e-01
96	PAN120312	-8.3804	-7.9989	-8.1749	8.2707e-02	8.7024e-01
97	PAN130312	-7.4824	-7.1010	-7.3018	8.0462e-02	8.7019e-01
98	PAB000136	24.9177	25.2381	25.1223	7.7675e-02	5.8339e-01
99	PAB100136	27.6484	27.8316	27.7278	4.3603e-02	5.8413e-01
100	PAB125136	28.3852	28.5226	28.4450	4.4030e-02	5.8434e-01

Test: May01_12

sum2

Date: Tue May 1 12:12:28 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.7724	25.2607	24.9867	1.2590e-01	7.5260e-01
102	PRV000001	26.5800	26.7021	26.6946	2.9569e-02	7.5296e-01
103	PSR000001	28.6106	28.8547	28.7451	4.4885e-02	7.5343e-01
104	PFM000001	5.4756	5.8418	5.6699	7.8474e-02	5.0020e-01
105	PAN000136	-99.4837	-93.5328	-96.5876	1.3456e+00	4.9259e+00
106	PFM000002	6.6232	7.1098	6.8574	1.0428e-01	2.0073e-01
107	EMPTY	-0.0049	0.0049	-0.0005	3.3423e-03	0.0000e+00
108	EMPTY	-9.9414	-9.0967	-9.4904	2.0292e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0006	1.6172e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0002	1.3951e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0187	9.2540e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0172	9.7656e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0127	1.0533e-01	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0771	9.8648e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0392	1.0299e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0056	1.0044e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.3010	1.0590e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4183	1.0538e+00	8.1000e+00
120	IPW000003	-0.5999	1.3501	-0.0826	8.6984e-01	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1342	2.4414e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.2843	2.4412e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0765	2.9901e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0213	3.4083e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.2826e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0172	2.6562e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0142	4.0172e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	9.3412e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0136	8.8965e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0387	5.9734e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0418	9.7324e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0276	9.8153e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0947	8.7123e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0637	9.3931e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0389	9.8153e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0479	6.7148e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0568	5.5804e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0009	6.7148e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0284	8.9148e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	6.8582e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0718	6.8582e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0239	7.5986e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0338	3.9868e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0685	1.5357e-01	4.1000e+00
145	IHT000018	-0.3794	0.2066	-0.0565	1.0955e-01	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1398	9.6990e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0402	7.1817e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0547	6.9053e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1147	9.8648e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0369	9.6150e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0766	7.9532e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0840	8.5810e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0355	7.6412e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0261	4.8662e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0422	9.6318e-02	4.1000e+00

Test: May01_12

sum2

Date: Tue May 1 12:12:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0051	6.4688e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0696	9.8648e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0395	9.8648e-02	4.1000e+00
159	IHT000032	-0.2066	0.3793	-0.0033	7.9328e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	7.9736e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0415	9.3931e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0302	1.0204e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0120	6.1868e-02	4.1000e+00

Test: May01_12 dif Date: Tue May 1 12:12:28 1990 Page: 1

Velocity 1 = 0.005800 (ft/sec)

Velocity 2 = 0.005600 (ft/sec)

Pressure Drop = 0.002100 (psi)

Tsat in = 0.104111 (deg F) Tsat out = 0.061813 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0164	0.0219
1	TRF000002	0.0130	0.0173
2	TFM000001	0.0667	0.0769
3	TIN000001	0.0359	0.0416
4	TRV000001	0.0156	0.0180
5	TSR000001	0.0109	0.0126
6	TAO020136	0.0118	0.0136
7	TAO050136	0.0465	0.0536
8	TAO070136	0.0283	0.0332
9	TAO080136	0.0124	0.0143
10	TAO090136	0.0448	0.0516
11	TAO100136	0.0207	0.0239
12	TAO105136	0.0089	0.0102
13	TAO110136	0.0100	0.0118
14	TAO115136	0.0808	0.0930
15	TAO120136	0.0069	0.0080
16	TAO125136	0.0272	0.0314
17	TAO130136	0.0091	0.0105
18	TAO120048	0.0046	0.0053
19	TAO130048	0.0274	0.0317
20	TAO120224	0.0022	0.0025
21	TAO130224	0.0065	0.0075
22	TAO120312	0.0286	0.0331
23	TAO130312	0.0035	0.0041
24	TRT020000	0.0382	0.0439
25	TRT070000	0.0060	0.0069
26	TRT100000	0.0687	0.0789
27	TRT120000	0.0001	0.0001
28	TRT125000	0.0133	0.0153
29	TRT130000	0.0064	0.0074
30	EMPTY	0.0005	0.0013
31	TAF050136	0.0123	0.0142
32	TAF070136	0.0200	0.0229
33	TAF080136	0.0172	0.0198
34	TAF090136	0.0481	0.0566
35	TAF100136	0.0058	0.0067
36	TAF105136	0.0365	0.0421
37	TAF110136	0.0072	0.0083
38	TAF115136	0.0379	0.0436
39	TAF120136	0.0194	0.0224
40	TAF125136	0.0577	0.0664
41	TAF130136	0.0089	0.0103
42	TAF120048	0.0020	0.0023
43	TAF130048	0.0142	0.0164
44	TAF120224	0.0439	0.0506
45	TAF130224	0.0168	0.0195

#	Name	Abs Diff	%Diff
46	EMPTY	0.0211	0.0554
47	EMPTY	0.0134	0.0342
48	TAI130138	0.0133	0.0153
49	TAI130226	0.0382	0.0443
50	TAI130314	0.0235	0.0270
51	TAI130042	0.0135	0.0156
52	TRR130090	0.0477	0.0552
53	TSI000001	0.0060	0.0073
54	TSI000002	0.0069	0.0095
55	TSO000001	0.0942	0.1378
56	TSO000002	0.0729	0.0916
57	TAF020136	0.0155	0.0180
58	TAF120312	0.0388	0.0449
59	TAF130312	0.0492	0.0572
60	EMPTY	0.0000	0.0000
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0001	0.0205
63	EMPTY	0.0003	0.0596
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0266
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0001	0.0235
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0001	0.0216
73	EMPTY	0.0001	0.0207
74	EMPTY	0.0001	0.0201
75	EMPTY	0.0003	0.0580
76	EMPTY	0.0003	0.0564
77	EMPTY	0.0001	0.0181
78	EMPTY	0.0008	0.1398
79	EMPTY	0.0002	0.0335
80	PAN020136	0.0448	0.3669
81	PAN050136	0.1218	0.5094
82	PAN070136	0.0796	0.5209
83	PAN080136	0.0371	0.4601
84	PAN090136	0.0473	0.6089
85	PAN100136	0.0087	0.1169
86	PAN105136	0.0037	0.0951
87	PAN110136	0.0203	0.5286
88	PAN115136	0.0508	1.4005
89	PAN120136	0.0291	0.6396
90	PAN125136	0.0142	0.3288
91	PAN130136	0.0102	0.2736
92	PAN120048	0.0051	0.0689
93	PAN130048	0.0078	0.1034
94	PAN120224	0.0019	0.0251
95	PAN130224	0.0033	0.0440
96	PAN120312	0.0362	0.4409
97	PAN130312	0.0131	0.1797
98	PAB000136	0.0462	0.1842
99	PAB100136	0.0336	0.1213
100	PAB125136	0.0305	0.1073

Test: May01_12 dif Date: Tue May 1 12:12:28 1990 Page: 3

#	Name	Abs Diff	%Diff
101	PIN0000001	0.0629	0.2524
102	PRV0000001	0.0075	0.0281
103	PSR0000001	0.0442	0.1540
104	PFM0000001	0.0108	0.1901
105	PAN000136	0.0580	0.0600
106	PFM0000002	0.0114	0.1660
107	EMPTY	0.0004	44.4444
108	EMPTY	0.0341	0.3580
109	EMPTY	0.0001	20.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW0000001	0.0130	228.0702
113	VPW0000002	0.0044	20.3704
114	VPW0000003	0.0148	704.7620
115	VPW0000004	0.0098	14.5617
116	VPW0000005	0.0149	61.3169
117	VPW0000006	0.0084	300.0000
118	IPW0000001	0.0565	4.1621
119	IPW0000002	0.4014	48.9691
120	IPW0000003	0.0287	53.2467
121	IPW0000004	0.0251	15.7564
122	IPW0000005	0.0837	22.7446
123	IPW0000006	0.0125	14.0449
124	EMPTY	0.0003	1.3889
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0002	1.1494
127	EMPTY	0.0006	4.0541
128	IHT0000001	0.0039	8.0412
129	IHT0000002	0.0070	33.9806
130	IHT0000003	0.0035	8.2938
131	IHT0000004	0.0119	39.7993
132	IHT0000005	0.0096	53.3333
133	IHT0000006	0.0185	24.2782
134	IHT0000007	0.0064	11.1693
135	IHT0000008	0.0018	4.8518
136	IHT0000009	0.0120	20.0334
137	IHT0000010	0.0275	93.8567
138	IHT0000011	0.0316	102.9316
139	IHT0000012	0.0045	13.6778
140	IHT0000013	0.0236	24.9735
141	IHT0000014	0.0197	37.8119
142	IHT0000015	0.0152	38.8747
143	IHT0000016	0.0117	52.9412
144	IHT0000017	0.0120	21.2389
145	IHT0000018	0.0248	78.2334
146	IHT0000019	0.0055	4.0953
147	IHT0000020	0.0270	204.5455
148	IHT0000021	0.0150	37.7834
149	IHT0000022	0.0333	40.9091
150	IHT0000023	0.0055	12.9717
151	IHT0000024	0.0110	16.7683
152	IHT0000025	0.0113	11.8573
153	IHT0000026	0.0280	44.0945
154	IHT0000027	0.0039	13.0000
155	IHT0000028	0.0153	26.6087

Test: May01_12 dif Date: Tue May 1 12:12:28 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0044	628.5715
157	IHT000030	0.0058	7.6923
158	IHT000031	0.0137	25.7519
159	IHT000032	0.0002	5.7143
160	IHT000033	0.0000	0.0000
161	IHT000034	0.0338	44.8871
162	IHT000035	0.0065	17.7112
163	IHT000036	0.0114	48.7179

Test: May01_13

sum1

Date: Tue May 1 12:15:29 1990

Page: 1

Velocity 1 = 4.0448 (ft/sec) (+/- 10.4360 %)
Velocity 2 = 4.8705 (ft/sec) (+/- 3.0389 %)
Pressure drop = -4.4918 (psi)
Tsat in = 237.5728 (deg F) Tsat out = 246.9575 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 6786.3994 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5073.3003 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9562	1.7328e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1034	1.2833e-01	1.9000e+00
2	TFM000001	86.6264	87.4662	86.9583	1.8760e-01	1.9002e+00
3	TIN000001	86.3570	86.8829	86.6346	1.3564e-01	1.9002e+00
4	TRV000001	86.3527	87.0861	86.7547	1.9077e-01	1.9002e+00
5	TSR000001	86.5918	87.2201	86.9098	1.4359e-01	1.9002e+00
6	TAO020136	86.6316	87.6826	87.1994	2.3457e-01	1.9002e+00
7	TAO050136	86.6037	87.4412	87.0262	1.7703e-01	1.9002e+00
8	TAO070136	84.9338	85.7772	85.4064	2.0675e-01	1.9002e+00
9	TAO080136	86.4942	87.1237	86.8635	1.4858e-01	1.9002e+00
10	TAO090136	86.5695	87.4093	87.0188	2.1720e-01	1.9002e+00
11	TAO100136	86.5385	87.1690	86.8454	1.6410e-01	1.9002e+00
12	TAO105136	87.0291	87.8702	87.4288	2.0472e-01	1.9002e+00
13	TAO110136	84.8624	85.5972	85.2361	1.6696e-01	1.9002e+00
14	TAO115136	86.5884	87.4309	87.0434	2.2847e-01	1.9002e+00
15	TAO120136	86.4260	87.0549	86.7319	1.6492e-01	1.9002e+00
16	TAO125136	86.6119	87.2417	86.9475	1.6695e-01	1.9002e+00
17	TAO130136	86.2472	86.8748	86.5827	1.5654e-01	1.9002e+00
18	TAO120048	86.5594	87.1899	86.8328	1.6839e-01	1.9002e+00
19	TAO130048	86.1790	86.8090	86.4814	1.5373e-01	1.9002e+00
20	TAO120224	86.3795	87.0103	86.6950	1.6839e-01	1.9002e+00
21	TAO130224	86.1814	87.0185	86.6705	1.7234e-01	1.9002e+00
22	TAO120312	86.0949	87.0408	86.6540	1.9395e-01	1.9002e+00
23	TAO130312	86.1356	86.7660	86.5094	1.3624e-01	1.9002e+00
24	TRT020000	86.7096	87.5519	87.1392	1.9460e-01	1.9002e+00
25	TRT070000	86.6745	87.3073	86.9366	1.5967e-01	1.9002e+00
26	TRT100000	86.8294	87.6687	87.1486	1.8576e-01	1.9002e+00
27	TRT120000	86.5306	87.3706	86.9339	1.4904e-01	1.9002e+00
28	TRT125000	86.4995	87.3373	86.9641	1.8082e-01	1.9002e+00
29	TRT130000	86.4060	87.0361	86.7168	1.4833e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.1573e-01	1.9011e+00
31	TAF050136	86.7082	87.4421	87.1320	1.5853e-01	1.9002e+00
32	TAF070136	87.1266	88.0681	87.5373	1.9588e-01	1.9002e+00
33	TAF080136	86.6516	87.1754	86.9481	1.2594e-01	1.9002e+00
34	TAF090136	84.5759	85.8368	85.0763	3.1008e-01	1.9002e+00
35	TAF100136	86.5075	87.2435	86.7980	1.5253e-01	1.9002e+00
36	TAF105136	86.5376	87.3721	86.9754	2.1914e-01	1.9002e+00
37	TAF110136	86.3761	87.0063	86.6618	1.6285e-01	1.9002e+00
38	TAF115136	86.8060	87.7499	87.2678	1.9185e-01	1.9002e+00
39	TAF120136	86.6273	87.2572	86.8753	1.7827e-01	1.9002e+00
40	TAF125136	86.4997	87.5456	87.1225	2.3695e-01	1.9002e+00
41	TAF130136	86.6092	87.2383	86.9237	1.6693e-01	1.9002e+00
42	TAF120048	86.9718	87.8164	87.3317	2.0553e-01	1.9002e+00
43	TAF130048	86.5376	87.1682	86.8697	1.8040e-01	1.9002e+00
44	TAF120224	86.6095	87.4503	86.9460	1.9912e-01	1.9002e+00
45	TAF130224	85.9814	86.9303	86.4410	1.9378e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1124	2.1412e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130138	86.5060	87.7658	87.1736	3.2211e-01	1.9002e+00
49	TAI130226	86.1479	86.8819	86.4998	1.8062e-01	1.9002e+00
50	TAI130314	86.5460	87.8084	87.1772	3.3390e-01	1.9002e+00
51	TAI130042	86.1323	87.0785	86.5235	2.2069e-01	1.9002e+00
52	TRR130090	86.0194	87.0684	86.5312	2.1672e-01	1.9002e+00
53	TSI000001	81.5901	82.3282	82.0160	1.8678e-01	1.9001e+00
54	TSI000002	71.9854	73.0468	72.4356	2.7150e-01	1.9000e+00
55	TSO000001	67.8344	68.5837	68.2711	1.9061e-01	1.9000e+00
56	TSO000002	79.2554	80.2061	79.8342	2.0928e-01	1.9001e+00
57	TAF020136	85.9212	86.6593	86.3383	1.8187e-01	1.9002e+00
58	TAF120312	86.2160	87.0564	86.7117	2.5521e-01	1.9002e+00
59	TAF130312	85.7953	86.6346	86.2363	1.6150e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4788	1.1714e-03	0.0000e+00
62	EMPTY	0.4883	0.4932	0.4931	6.9053e-04	0.0000e+00
63	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3222	6.9053e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3421	1.1714e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3601	2.1635e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3766	1.6028e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5750	2.1065e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5983	2.4583e-03	0.0000e+00
80	PAN020136	-16.1580	-15.2425	-15.7567	2.2591e-01	8.7089e-01
81	PAN050136	-30.7915	-29.5708	-30.1354	2.7787e-01	1.6817e+00
82	PAN070136	-20.2308	-19.3916	-19.8127	1.8956e-01	8.7141e-01
83	PAN080136	-10.5725	-10.2673	-10.4092	8.9890e-02	8.7039e-01
84	PAN090136	-9.8784	-9.7258	-9.8021	4.8742e-02	8.7035e-01
85	PAN100136	-9.8491	-9.6202	-9.7667	6.8656e-02	8.7034e-01
86	PAN105136	-5.1578	-4.8526	-4.9823	6.9362e-02	8.7009e-01
87	PAN110136	-5.0595	-4.8306	-4.9451	7.7453e-02	8.7009e-01
88	PAN115136	-4.7412	-4.5886	-4.6954	5.1121e-02	8.7008e-01
89	PAN120136	-5.7945	-5.5656	-5.6480	6.3253e-02	8.7011e-01
90	PAN125136	-5.5334	-5.3045	-5.4113	6.3552e-02	8.7011e-01
91	PAN130136	-4.9113	-4.7587	-4.8136	5.3484e-02	8.7008e-01
92	PAN120048	-9.6642	-9.3591	-9.5055	6.5104e-02	8.7032e-01
93	PAN130048	-9.9841	-9.7552	-9.8758	7.7207e-02	8.7035e-01
94	PAN120224	-9.8873	-9.5821	-9.7759	8.8826e-02	8.7034e-01
95	PAN130224	-10.0002	-9.6950	-9.8431	7.1321e-02	8.7035e-01
96	PAN120312	-10.4404	-10.1352	-10.3381	7.4895e-02	8.7038e-01
97	PAN130312	-9.5424	-9.3135	-9.4813	6.5395e-02	8.7032e-01
98	PAB000136	23.8191	24.0937	23.9454	6.1038e-02	5.8308e-01
99	PAB100136	27.2365	27.3738	27.3308	3.9681e-02	5.8401e-01
100	PAB125136	28.1563	28.2937	28.2424	4.0985e-02	5.8428e-01

Test: May01_13

sum1

Date: Tue May 1 12:15:29 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.5517	24.0400	23.7958	9.8648e-02	7.5236e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR000001	28.6106	28.7327	28.6936	5.7521e-02	7.5342e-01
104	PFM000001	2.2713	2.6375	2.4269	7.9017e-02	5.0004e-01
105	PAN000136	-126.4918	-121.9142	-124.3586	1.0569e+00	4.9298e+00
106	PFM000002	3.3511	3.7370	3.5464	8.5208e-02	2.0020e-01
107	EMPTY	-0.0019	0.0049	-0.0026	3.3029e-03	0.0000e+00
108	EMPTY	-9.9805	-9.1504	-9.4614	2.0891e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0174	9.2034e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	7.7324e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0253	9.6735e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0908	9.7377e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0282	9.3043e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0224	9.2456e-02	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.2795	1.1302e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.7807	1.1990e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.1411	1.1066e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2179	2.4164e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2899	2.6394e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	0.0281	3.4527e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.5786e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.2839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.0261e-03	0.0000e+00
128	IHT000001	-0.1390	0.4470	0.0368	1.1334e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0305	8.2864e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	6.6498e-02	4.1000e+00
132	IHT000005	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.1270	5.9189e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0455	9.7935e-02	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0137	1.0014e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0482	7.7324e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0527	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	7.8918e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0212	9.4125e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0632	8.6810e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0560	8.7880e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0273	9.6735e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0338	3.9459e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0526	1.4764e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0278	9.6655e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1187	9.8648e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0093	9.5112e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0475	8.5454e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0931	9.6655e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0580	8.8585e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0813	7.5798e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0718	7.2866e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0613	7.2330e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0263	1.1161e-01	4.1000e+00

Test: May01_13

sum1

Date: Tue May 1 12:15:29 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0242	8.1729e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0715	9.8569e-02	4.1000e+00
158	IHT000031	-0.3305	0.0601	-0.0376	1.0625e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	7.8918e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0484	1.1272e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0313	7.2330e-02	4.1000e+00

Velocity 1 = 4.0428 (ft/sec) (+/- 10.4462 %)
Velocity 2 = 4.8764 (ft/sec) (+/- 3.0336 %)
Pressure drop = -4.4950 (psi)
Tsats in = 237.6661 (deg F) Tsats out = 247.0849 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 22850.0762 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 140313.6875 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9323	1.7811e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.0910	1.2092e-01	1.9000e+00
2	TFM000001	86.6264	87.3609	86.9693	2.0397e-01	1.9002e+00
3	TIN000001	86.3568	86.8824	86.6295	1.0502e-01	1.9002e+00
4	TRV000001	86.2473	87.0861	86.7671	2.0282e-01	1.9002e+00
5	TSR000001	86.5905	87.3249	86.9268	1.6433e-01	1.9002e+00
6	TAO020136	86.6316	87.6826	87.1573	2.2709e-01	1.9002e+00
7	TAO050136	86.8118	87.5450	87.0347	1.5941e-01	1.9002e+00
8	TAO070136	84.9338	85.7777	85.4118	1.9375e-01	1.9002e+00
9	TAO080136	86.4942	87.1231	86.8262	1.4082e-01	1.9002e+00
10	TAO090136	86.5702	87.4093	86.9959	1.9904e-01	1.9002e+00
11	TAO100136	86.5385	87.2737	86.8280	1.4311e-01	1.9002e+00
12	TAO105136	86.9243	87.7654	87.4327	2.1164e-01	1.9002e+00
13	TAO110136	84.8624	85.5972	85.2457	1.7569e-01	1.9002e+00
14	TAO115136	86.3782	87.5357	87.0312	2.3441e-01	1.9002e+00
15	TAO120136	86.4260	86.9501	86.7421	1.3937e-01	1.9002e+00
16	TAO125136	86.5065	87.2417	86.9500	1.5639e-01	1.9002e+00
17	TAO130136	86.2472	86.9796	86.5617	1.6237e-01	1.9002e+00
18	TAO120048	86.4546	87.1899	86.8254	1.5620e-01	1.9002e+00
19	TAO130048	86.1790	86.8090	86.4533	1.5560e-01	1.9002e+00
20	TAO120224	86.3795	87.1147	86.7227	1.5283e-01	1.9002e+00
21	TAO130224	86.3895	87.0185	86.7227	1.3481e-01	1.9002e+00
22	TAO120312	86.3050	87.0406	86.6632	1.6323e-01	1.9002e+00
23	TAO130312	86.2402	86.7660	86.4785	1.2280e-01	1.9002e+00
24	TRT020000	86.7096	87.4466	87.1437	1.8433e-01	1.9002e+00
25	TRT070000	86.6751	87.2020	86.9550	1.3871e-01	1.9002e+00
26	TRT100000	86.7246	87.4595	87.1978	1.6604e-01	1.9002e+00
27	TRT120000	86.6354	87.3706	86.9420	1.6016e-01	1.9002e+00
28	TRT125000	86.7080	87.5457	87.0032	1.7040e-01	1.9002e+00
29	TRT130000	86.4066	87.0361	86.7273	1.3618e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6431	2.4051e-01	1.9011e+00
31	TAF050136	86.8127	87.5474	87.1491	1.6985e-01	1.9002e+00
32	TAF070136	87.1266	88.0687	87.5199	1.7683e-01	1.9002e+00
33	TAF080136	86.5462	87.2782	86.9475	1.5319e-01	1.9002e+00
34	TAF090136	84.3660	85.6264	85.1293	2.9297e-01	1.9002e+00
35	TAF100136	86.4026	87.2435	86.7953	1.8562e-01	1.9002e+00
36	TAF105136	86.5376	87.2673	86.9396	1.9279e-01	1.9002e+00
37	TAF110136	86.1673	87.0063	86.6334	1.8791e-01	1.9002e+00
38	TAF115136	86.9108	87.8552	87.2729	1.8548e-01	1.9002e+00
39	TAF120136	86.6273	87.2572	86.9144	1.6135e-01	1.9002e+00
40	TAF125136	86.6050	87.5438	87.1010	2.1968e-01	1.9002e+00
41	TAF130136	86.6085	87.2383	86.9365	1.5397e-01	1.9002e+00
42	TAF120048	86.8683	87.8164	87.3219	2.2810e-01	1.9002e+00
43	TAF130048	86.3279	87.1682	86.8550	1.9224e-01	1.9002e+00
44	TAF120224	86.5047	87.4503	86.9657	1.7791e-01	1.9002e+00
45	TAF130224	86.0863	86.8244	86.4160	1.6340e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1147	2.1053e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1652	6.3526e-02	1.9010e+00
48	TAI130138	86.5060	87.7651	87.1101	3.1382e-01	1.9002e+00
49	TAI130226	86.0424	86.7765	86.5218	1.6850e-01	1.9002e+00
50	TAI130314	86.6514	87.7031	87.2695	2.6782e-01	1.9002e+00
51	TAI130042	86.2375	86.8680	86.5915	1.8290e-01	1.9002e+00
52	TRR130090	85.9140	87.0677	86.5714	2.3138e-01	1.9002e+00
53	TSI000001	81.6954	82.5385	81.9796	1.4934e-01	1.9001e+00
54	TSI000002	71.6673	72.8342	72.3885	2.5153e-01	1.9000e+00
55	TSO000001	67.8344	68.6900	68.2626	1.7732e-01	1.9000e+00
56	TSO000002	79.4664	80.2061	79.8653	1.7939e-01	1.9001e+00
57	TAF020136	85.9212	86.8695	86.3145	1.8102e-01	1.9002e+00
58	TAF120312	86.1111	87.2660	86.7261	2.7428e-01	1.9002e+00
59	TAF130312	85.7953	86.5307	86.2260	1.7439e-01	1.9002e+00
60	EMPTY	0.4639	0.4688	0.4642	1.1827e-03	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4787	9.7615e-04	0.0000e+00
62	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5082	1.3508e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3224	6.9754e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3429	2.0584e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3605	1.8234e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3771	2.0584e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3912	1.6172e-03	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4256	1.8234e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4495	1.1827e-03	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9754e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4835	6.9754e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4985	1.4934e-03	0.0000e+00
75	EMPTY	0.5127	0.5225	0.5176	9.9670e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9754e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5758	1.3508e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5995	2.0584e-03	0.0000e+00
80	PAN020136	-16.2343	-15.3187	-15.8326	1.9123e-01	8.7090e-01
81	PAN050136	-30.6389	-29.7234	-30.1531	2.1279e-01	1.6817e+00
82	PAN070136	-20.2308	-19.4679	-19.8151	1.9947e-01	8.7141e-01
83	PAN080136	-10.5725	-10.1147	-10.3747	1.1003e-01	8.7039e-01
84	PAN090136	-9.8784	-9.6495	-9.7725	6.1935e-02	8.7034e-01
85	PAN100136	-9.9254	-9.6202	-9.7744	6.5129e-02	8.7034e-01
86	PAN105136	-5.0815	-4.8526	-4.9958	6.1574e-02	8.7009e-01
87	PAN110136	-5.0595	-4.8306	-4.9334	6.7076e-02	8.7009e-01
88	PAN115136	-4.8175	-4.5123	-4.6602	8.0030e-02	8.7008e-01
89	PAN120136	-5.8708	-5.5656	-5.7089	8.3333e-02	8.7012e-01
90	PAN125136	-5.5334	-5.3045	-5.4135	6.0316e-02	8.7011e-01
91	PAN130136	-4.9113	-4.6824	-4.8179	5.8820e-02	8.7008e-01
92	PAN120048	-9.5879	-9.3591	-9.5132	6.1292e-02	8.7033e-01
93	PAN130048	-10.0604	-9.7552	-9.8814	7.8721e-02	8.7035e-01
94	PAN120224	-9.8873	-9.5821	-9.7658	8.6595e-02	8.7034e-01
95	PAN130224	-9.9239	-9.6950	-9.8336	6.3591e-02	8.7035e-01
96	PAN120312	-10.4404	-10.1352	-10.3142	6.1414e-02	8.7038e-01
97	PAN130312	-9.6950	-9.3898	-9.4972	5.8100e-02	8.7032e-01
98	PAB000136	23.9106	24.1395	23.9853	5.7368e-02	5.8309e-01
99	PAB100136	27.3280	27.4196	27.3644	3.7352e-02	5.8402e-01
100	PAB125136	28.2479	28.3852	28.3049	4.2339e-02	5.8430e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.6738	24.0400	23.8457	9.2961e-02	7.5237e-01
102	PRV000001	26.7021	26.8241	26.7046	1.7439e-02	7.5297e-01
103	PSR000001	28.6106	28.8547	28.7327	2.4917e-02	7.5343e-01
104	PFM000001	2.2713	2.5459	2.4245	7.7927e-02	5.0004e-01
105	PAN000136	-126.0340	-122.8297	-124.4459	8.2578e-01	4.9298e+00
106	PFM000002	3.3679	3.7203	3.5552	7.6997e-02	2.0020e-01
107	EMPTY	-0.0049	0.0049	-0.0033	2.7091e-03	0.0000e+00
108	EMPTY	-9.8047	-9.0869	-9.4423	1.8685e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0010	1.9883e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0052	8.8965e-02	8.1000e-01
113	VPW000002	-0.0451	0.1502	-0.0212	6.4688e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0032	9.7656e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0692	1.1348e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0392	9.4962e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0143	7.3601e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.4205	1.0405e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4979	9.3669e-01	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.2756	1.1301e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2338	2.3783e-01	2.0000e+00
122	IPW000005	-1.0516	-0.0751	-0.3441	2.6483e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0167	3.7184e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0213	3.1032e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.4907e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	2.9146e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0144	3.2995e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0324	9.4620e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0335	9.0949e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0347	7.8092e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0059	1.0548e-01	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0276	1.0594e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0947	1.0378e-01	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0637	9.3931e-02	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0309	1.0486e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0399	7.5986e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0369	7.3601e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0230	5.5804e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0245	1.0044e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	5.5804e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0718	7.9328e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0080	5.5804e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0378	4.8662e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0805	1.5947e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0246	9.4962e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1438	1.1276e-01	4.1000e+00
147	IHT000020	-0.0601	0.3305	-0.0083	9.5812e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0468	7.6412e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0947	1.1219e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0369	9.6150e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0925	1.1014e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0800	1.1448e-01	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0554	8.7680e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0460	7.8092e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0183	1.0517e-01	4.1000e+00

Test: May01_13

sum2

Date: Tue May 1 12:15:29 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0171	8.6187e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0656	1.0640e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0395	1.2041e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0193	8.8783e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	9.7656e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0494	1.0409e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0382	1.0409e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0359	7.6412e-02	4.1000e+00

Test: May01_13 dif Date: Tue May 1 12:15:29 1990 Page: 1

Velocity 1 = 0.002000 (ft/sec)

Velocity 2 = 0.005900 (ft/sec)

Pressure Drop = 0.003200 (psi)

Tsat in = 0.093307 (deg F) Tsat out = 0.127396 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0239	0.0319
1	TRF000002	0.0124	0.0165
2	TFM000001	0.0110	0.0127
3	TIN000001	0.0051	0.0059
4	TRV000001	0.0124	0.0143
5	TSR000001	0.0170	0.0196
6	TAO020136	0.0421	0.0483
7	TAO050136	0.0085	0.0098
8	TAO070136	0.0054	0.0063
9	TAO080136	0.0373	0.0429
10	TAO090136	0.0229	0.0263
11	TAO100136	0.0174	0.0200
12	TAO105136	0.0039	0.0045
13	TAO110136	0.0096	0.0113
14	TAO115136	0.0122	0.0140
15	TAO120136	0.0102	0.0118
16	TAO125136	0.0025	0.0029
17	TAO130136	0.0210	0.0243
18	TAO120048	0.0074	0.0085
19	TAO130048	0.0281	0.0325
20	TAO120224	0.0277	0.0320
21	TAO130224	0.0522	0.0602
22	TAO120312	0.0092	0.0106
23	TAO130312	0.0309	0.0357
24	TRT020000	0.0045	0.0052
25	TRT070000	0.0184	0.0212
26	TRT100000	0.0492	0.0565
27	TRT120000	0.0081	0.0093
28	TRT125000	0.0391	0.0450
29	TRT130000	0.0105	0.0121
30	EMPTY	0.0099	0.0250
31	TAF050136	0.0171	0.0196
32	TAF070136	0.0174	0.0199
33	TAF080136	0.0006	0.0007
34	TAF090136	0.0530	0.0623
35	TAF100136	0.0027	0.0031
36	TAF105136	0.0358	0.0412
37	TAF110136	0.0284	0.0328
38	TAF115136	0.0051	0.0058
39	TAF120136	0.0391	0.0450
40	TAF125136	0.0215	0.0247
41	TAF130136	0.0128	0.0147
42	TAF120048	0.0098	0.0112
43	TAF130048	0.0147	0.0169
44	TAF120224	0.0197	0.0227
45	TAF130224	0.0250	0.0289

#	Name	Abs Diff	%Diff
46	EMPTY	0.0023	0.0060
47	EMPTY	0.0639	0.1629
48	TAI130138	0.0635	0.0728
49	TAI130226	0.0220	0.0254
50	TAI130314	0.0923	0.1059
51	TAI130042	0.0680	0.0786
52	TRR130090	0.0402	0.0465
53	TSI000001	0.0364	0.0444
54	TSI000002	0.0471	0.0650
55	TSO000001	0.0085	0.0124
56	TSO000002	0.0311	0.0390
57	TAF020136	0.0238	0.0276
58	TAF120312	0.0144	0.0166
59	TAF130312	0.0103	0.0119
60	EMPTY	0.0004	0.0862
61	EMPTY	0.0001	0.0209
62	EMPTY	0.0001	0.0203
63	EMPTY	0.0004	0.0788
64	EMPTY	0.0002	0.0621
65	EMPTY	0.0008	0.2339
66	EMPTY	0.0004	0.1111
67	EMPTY	0.0005	0.1328
68	EMPTY	0.0004	0.1024
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0007	0.1647
71	EMPTY	0.0003	0.0668
72	EMPTY	0.0001	0.0216
73	EMPTY	0.0002	0.0414
74	EMPTY	0.0002	0.0401
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0002	0.0376
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0008	0.1391
79	EMPTY	0.0012	0.2006
80	PAN020136	0.0759	0.4817
81	PAN050136	0.0177	0.0587
82	PAN070136	0.0024	0.0121
83	PAN080136	0.0345	0.3314
84	PAN090136	0.0296	0.3020
85	PAN100136	0.0077	0.0788
86	PAN105136	0.0135	0.2710
87	PAN110136	0.0117	0.2366
88	PAN115136	0.0352	0.7497
89	PAN120136	0.0609	1.0783
90	PAN125136	0.0022	0.0406
91	PAN130136	0.0043	0.0893
92	PAN120048	0.0077	0.0810
93	PAN130048	0.0056	0.0567
94	PAN120224	0.0101	0.1033
95	PAN130224	0.0095	0.0965
96	PAN120312	0.0239	0.2312
97	PAN130312	0.0159	0.1677
98	PAB000136	0.0399	0.1666
99	PAB100136	0.0336	0.1229
100	PAB125136	0.0625	0.2213

Test: May01_13

dif

Date: Tue May 1 12:15:29 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0499	0.2097
102	PRV000001	0.0050	0.0187
103	PSR000001	0.0391	0.1363
104	PFM000001	0.0024	0.0989
105	PAN000136	0.0873	0.0702
106	PFM000002	0.0088	0.2481
107	EMPTY	0.0007	26.9231
108	EMPTY	0.0191	0.2019
109	EMPTY	0.0001	11.1111
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0226	129.8851
113	VPW000002	0.0083	28.1356
114	VPW000003	0.0285	112.6482
115	VPW000004	0.0216	23.7885
116	VPW000005	0.0110	39.0071
117	VPW000006	0.0081	36.1607
118	IPW000001	0.1410	11.0199
119	IPW000002	0.2828	36.2239
120	IPW000003	0.1345	95.3224
121	IPW000004	0.0159	7.2969
122	IPW000005	0.0542	18.6961
123	IPW000006	0.0448	159.4306
124	EMPTY	0.0004	1.8433
125	EMPTY	0.0003	2.1583
126	EMPTY	0.0003	1.7143
127	EMPTY	0.0005	3.3557
128	IHT000001	0.0044	11.9565
129	IHT000002	0.0168	100.5988
130	IHT000003	0.0042	13.7705
131	IHT000004	0.0123	67.5824
132	IHT000005	0.0447	261.4035
133	IHT000006	0.0323	25.4331
134	IHT000007	0.0182	40.0000
135	IHT000008	0.0172	125.5474
136	IHT000009	0.0083	17.2199
137	IHT000010	0.0158	29.9810
138	IHT000011	0.0080	53.3333
139	IHT000012	0.0033	15.5660
140	IHT000013	0.0077	12.1836
141	IHT000014	0.0158	28.2143
142	IHT000015	0.0193	70.6960
143	IHT000016	0.0040	11.8343
144	IHT000017	0.0279	53.0418
145	IHT000018	0.0032	11.5108
146	IHT000019	0.0251	21.1458
147	IHT000020	0.0010	10.7527
148	IHT000021	0.0007	1.4737
149	IHT000022	0.0016	1.7186
150	IHT000023	0.0211	36.3793
151	IHT000024	0.0112	13.7761
152	IHT000025	0.0082	11.4206
153	IHT000026	0.0003	0.5386
154	IHT000027	0.0153	24.9592
155	IHT000028	0.0080	30.4182

Test: May01_13 dif Date: Tue May 1 12:15:29 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0071	29.3388
157	IHT000030	0.0059	8.2518
158	IHT000031	0.0019	5.0532
159	IHT000032	0.0002	1.0471
160	IHT000033	0.0000	0.0000
161	IHT000034	0.0015	3.1315
162	IHT000035	0.0102	21.0744
163	IHT000036	0.0046	14.6965

Test: May01_14

sum1

Date: Tue May 1 12:19:03 1990

Page: 1

Velocity 1 = 2.9649 (ft/sec) (+/- 19.5650 %)
Velocity 2 = 4.0260 (ft/sec) (+/- 4.1004 %)
Pressure drop = -4.8837 (psi)
Tsat in = 236.7850 (deg F) Tsat out = 247.0117 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 8550.0020 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3462.1582 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9647	1.8343e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1457	1.0991e-01	1.9000e+00
2	TFM000001	86.9406	87.6756	87.3647	1.6536e-01	1.9002e+00
3	TIN000001	86.7770	87.3035	87.0173	1.5179e-01	1.9002e+00
4	TRV000001	86.7701	87.6086	87.1225	1.8658e-01	1.9002e+00
5	TSR000001	86.6953	87.3249	87.0894	1.5357e-01	1.9002e+00
6	TAO020136	86.9468	87.8927	87.4515	2.3836e-01	1.9002e+00
7	TAO050136	86.9157	87.6498	87.3727	1.6372e-01	1.9002e+00
8	TAO070136	85.2503	85.9886	85.6383	1.9331e-01	1.9002e+00
9	TAO080136	86.8076	87.4370	87.1682	1.4068e-01	1.9002e+00
10	TAO090136	86.8839	87.7235	87.3624	1.7237e-01	1.9002e+00
11	TAO100136	86.9577	87.4833	87.2184	1.4269e-01	1.9002e+00
12	TAO105136	87.3447	88.2903	87.7776	2.1083e-01	1.9002e+00
13	TAO110136	85.0708	85.8055	85.4698	1.6941e-01	1.9002e+00
14	TAO115136	86.7990	88.0619	87.3675	2.4148e-01	1.9002e+00
15	TAO120136	86.7373	87.2629	87.0399	1.3010e-01	1.9002e+00
16	TAO125136	86.9256	87.5559	87.2660	1.7553e-01	1.9002e+00
17	TAO130136	86.5587	87.1862	86.9095	1.6036e-01	1.9002e+00
18	TAO120048	86.8739	87.6090	87.1640	1.8065e-01	1.9002e+00
19	TAO130048	86.3881	87.0179	86.7615	1.4563e-01	1.9002e+00
20	TAO120224	86.6942	87.4297	87.0306	1.8376e-01	1.9002e+00
21	TAO130224	86.4928	87.3291	86.9952	1.5415e-01	1.9002e+00
22	TAO120312	86.6199	87.4606	86.9899	1.8533e-01	1.9002e+00
23	TAO130312	86.4496	87.1846	86.7816	1.3647e-01	1.9002e+00
24	TRT020000	87.1304	87.9727	87.5769	2.2353e-01	1.9002e+00
25	TRT070000	86.9919	87.7297	87.3632	1.7462e-01	1.9002e+00
26	TRT100000	87.1433	87.8779	87.4668	2.0070e-01	1.9002e+00
27	TRT120000	86.8450	87.5801	87.2650	1.6010e-01	1.9002e+00
28	TRT125000	86.8117	87.5457	87.2728	1.7799e-01	1.9002e+00
29	TRT130000	86.5104	87.2452	87.0056	1.3085e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.2549e-01	1.9011e+00
31	TAF050136	87.0219	87.9656	87.5086	1.7045e-01	1.9002e+00
32	TAF070136	87.4407	88.1734	87.8963	1.7145e-01	1.9002e+00
33	TAF080136	86.9627	87.5916	87.3313	1.5288e-01	1.9002e+00
34	TAF090136	84.8908	85.9411	85.3576	2.5822e-01	1.9002e+00
35	TAF100136	86.7178	87.5590	87.1722	1.9401e-01	1.9002e+00
36	TAF105136	86.9533	87.7881	87.3377	2.0897e-01	1.9002e+00
37	TAF110136	86.6898	87.4246	87.0427	1.4187e-01	1.9002e+00
38	TAF115136	87.1204	88.0646	87.6365	2.0303e-01	1.9002e+00
39	TAF120136	86.9407	87.4663	87.2392	1.2265e-01	1.9002e+00
40	TAF125136	86.8135	87.9621	87.4227	2.6859e-01	1.9002e+00
41	TAF130136	86.9228	87.7623	87.2756	1.4659e-01	1.9002e+00
42	TAF120048	87.1844	88.0289	87.6485	2.1320e-01	1.9002e+00
43	TAF130048	86.8527	87.5873	87.2219	1.8146e-01	1.9002e+00
44	TAF120224	86.9249	87.8700	87.3365	1.9313e-01	1.9002e+00
45	TAF130224	86.4030	87.2468	86.8126	2.0390e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.7534e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130138	86.9256	88.1854	87.4800	3.1094e-01	1.9002e+00
49	TAI130226	86.4609	87.1954	86.8304	1.9192e-01	1.9002e+00
50	TAI130314	86.9669	88.1233	87.5305	3.0542e-01	1.9002e+00
51	TAI130042	86.4476	87.1833	86.8637	1.9102e-01	1.9002e+00
52	TRR130090	86.3339	87.3819	86.8329	2.6674e-01	1.9002e+00
53	TSI000001	81.3797	82.3282	81.9488	1.9509e-01	1.9001e+00
54	TSI000002	71.8795	72.8350	72.3425	2.7251e-01	1.9000e+00
55	TSO000001	67.5137	68.7972	68.2495	2.1358e-01	1.9000e+00
56	TSO000002	79.4668	80.4170	79.9481	2.2688e-01	1.9001e+00
57	TAF020136	86.3427	87.0806	86.6887	1.6768e-01	1.9002e+00
58	TAF120312	86.5306	87.6852	87.0556	2.8744e-01	1.9002e+00
59	TAF130312	86.2141	86.9492	86.5630	1.7918e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4710	2.4583e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4845	2.0432e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5139	2.1065e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3260	2.1065e-03	0.0000e+00
65	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3617	1.3381e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3808	6.9053e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3953	9.6655e-04	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4131	2.4164e-03	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4536	1.4797e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4663	2.4662e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4853	2.3941e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5188	2.1065e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5327	1.4797e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5521	1.3381e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5761	6.9053e-04	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	-17.6076	-16.6920	-17.1986	2.0142e-01	8.7106e-01
81	PAN050136	-33.0803	-32.0122	-32.6836	2.3679e-01	1.6820e+00
82	PAN070136	-22.0619	-21.1463	-21.6071	2.0271e-01	8.7168e-01
83	PAN080136	-11.7932	-11.3354	-11.5139	1.1073e-01	8.7048e-01
84	PAN090136	-10.4125	-10.1836	-10.2965	6.7610e-02	8.7038e-01
85	PAN100136	-10.8409	-10.5358	-10.6487	6.3999e-02	8.7041e-01
86	PAN105136	-5.5392	-5.2341	-5.3653	6.9001e-02	8.7010e-01
87	PAN110136	-5.4410	-5.2884	-5.3799	5.5575e-02	8.7010e-01
88	PAN115136	-5.1990	-4.9701	-5.0555	6.4738e-02	8.7009e-01
89	PAN120136	-6.0997	-5.9471	-6.0127	5.3417e-02	8.7013e-01
90	PAN125136	-5.9912	-5.7623	-5.8569	5.6759e-02	8.7012e-01
91	PAN130136	-5.3691	-5.1402	-5.2455	6.3346e-02	8.7010e-01
92	PAN120048	-10.4272	-10.1983	-10.2975	5.3948e-02	8.7038e-01
93	PAN130048	-10.8997	-10.5945	-10.7318	6.5395e-02	8.7041e-01
94	PAN120224	-10.8028	-10.6502	-10.7265	5.7673e-02	8.7041e-01
95	PAN130224	-10.9158	-10.6869	-10.7693	6.8656e-02	8.7042e-01
96	PAN120312	-11.3559	-11.0507	-11.1880	6.5395e-02	8.7045e-01
97	PAN130312	-10.4579	-10.3053	-10.3389	5.1492e-02	8.7038e-01
98	PAB000136	23.4986	23.7733	23.6103	6.4843e-02	5.8300e-01
99	PAB100136	27.1907	27.3738	27.2822	3.9237e-02	5.8400e-01
100	PAB125136	28.2479	28.2937	28.2690	2.3046e-02	5.8429e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	23.1855	23.5517	23.3613	7.4641e-02	7.5227e-01
102	PRV0000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR0000001	28.6106	28.8547	28.7400	3.8286e-02	7.5343e-01
104	PFM0000001	1.1726	1.4473	1.2825	8.0624e-02	5.0001e-01
105	PAN000136	-136.5626	-133.3582	-135.2076	8.0603e-01	4.9316e+00
106	PFM0000002	2.2101	2.5457	2.4037	7.1127e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.3261e-03	0.0000e+00
108	EMPTY	-9.9170	-9.0625	-9.4451	2.0034e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.0451	0.1502	0.0331	9.6655e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0216	8.4997e-02	8.1000e-01
114	VPW0000003	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
115	VPW0000004	-0.1728	0.0225	-0.0673	9.8332e-02	8.1000e-01
116	VPW0000005	-0.1202	0.0751	0.0400	7.5798e-02	8.1000e-01
117	VPW0000006	-0.2216	0.1690	0.0206	1.0106e-01	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-0.6547	1.2653e+00	8.1000e+00
119	IPW0000002	-2.9267	2.9271	0.0002	1.1323e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.2099	1.2458e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.0616	2.2146e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	-0.0946	2.4081e-01	2.0000e+00
123	IPW0000006	-0.7043	0.7606	-0.1476	3.4187e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0203	3.1752e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.2603e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	3.1023e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.1133e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0446	8.2864e-02	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0284	9.6976e-02	4.1000e+00
130	IHT0000003	-0.1765	0.4094	0.0344	8.6810e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0338	8.8233e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0918	8.8585e-02	4.1000e+00
134	IHT0000007	-0.0638	0.3268	0.0533	1.0440e-01	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0488	9.8648e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0677	7.3716e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0371	6.1257e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0189	4.8166e-02	4.1000e+00
139	IHT0000012	-0.0563	0.1390	-0.0173	7.8918e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0789	3.9459e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0638	6.8345e-02	4.1000e+00
142	IHT0000015	0.0000	0.1953	0.0156	5.3525e-02	4.1000e+00
143	IHT0000016	-0.0338	0.1615	-0.0299	2.7621e-02	4.1000e+00
144	IHT0000017	-0.4432	0.1427	-0.0604	1.5262e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0278	8.8233e-02	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.1148	9.6976e-02	4.1000e+00
147	IHT0000020	-0.2554	0.3305	-0.0250	9.4125e-02	4.1000e+00
148	IHT0000021	-0.0826	0.3080	-0.0397	9.0756e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.0736	9.8648e-02	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0502	9.2034e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.1047	6.1257e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0953	8.5454e-02	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0596	7.2866e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0457	7.7324e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0224	1.0799e-01	4.1000e+00

Test: May01_14

sum1

Date: Tue May 1 12:19:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0071	7.2866e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0872	9.6655e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.0617e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0152	7.3716e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0078	7.8523e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0440	1.0259e-01	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0289	1.0145e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0352	7.5798e-02	4.1000e+00

Test: May01_14

sum2

Date: Tue May 1 12:19:03 1990

Page: 1

Velocity 1 = 2.9716 (ft/sec) (+/- 19.4749 %)
Velocity 2 = 4.0270 (ft/sec) (+/- 4.0987 %)
Pressure drop = -4.8817 (psi)
Tsat in = 236.9360 (deg F) Tsat out = 247.1951 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 24942.9082 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 29337.4805 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9888	1.8706e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1213	1.1643e-01	1.9000e+00
2	TFM000001	86.9406	87.6756	87.3670	1.5056e-01	1.9002e+00
3	TIN000001	86.7777	87.3035	87.0545	1.3523e-01	1.9002e+00
4	TRV000001	86.7701	87.6086	87.2448	1.8635e-01	1.9002e+00
5	TSR000001	86.7993	87.4283	87.1231	1.4017e-01	1.9002e+00
6	TAO020136	86.9468	87.9980	87.5562	2.3303e-01	1.9002e+00
7	TAO050136	87.1243	87.8583	87.4097	1.8511e-01	1.9002e+00
8	TAO070136	85.2509	86.1989	85.6657	2.4660e-01	1.9002e+00
9	TAO080136	86.7028	87.4370	87.1840	1.5577e-01	1.9002e+00
10	TAO090136	86.9886	87.7235	87.3722	1.8231e-01	1.9002e+00
11	TAO100136	86.8529	87.4833	87.2046	1.4937e-01	1.9002e+00
12	TAO105136	87.3448	88.2903	87.8015	2.1931e-01	1.9002e+00
13	TAO110136	85.2793	85.8055	85.4885	1.4753e-01	1.9002e+00
14	TAO115136	86.7990	87.7462	87.3835	2.0617e-01	1.9002e+00
15	TAO120136	86.7373	87.4708	87.0737	1.5713e-01	1.9002e+00
16	TAO125136	87.0304	87.6606	87.2965	1.5171e-01	1.9002e+00
17	TAO130136	86.4539	87.1862	86.9420	1.4875e-01	1.9002e+00
18	TAO120048	86.7691	87.6090	87.1806	1.8533e-01	1.9002e+00
19	TAO130048	86.4922	87.1215	86.7990	1.4025e-01	1.9002e+00
20	TAO120224	86.4845	87.4297	87.0996	1.8067e-01	1.9002e+00
21	TAO130224	86.4928	87.2265	87.0160	1.4680e-01	1.9002e+00
22	TAO120312	86.5150	87.4606	87.0361	1.9297e-01	1.9002e+00
23	TAO130312	86.4496	87.1846	86.8290	1.7116e-01	1.9002e+00
24	TRT020000	87.1308	87.9723	87.5561	2.0477e-01	1.9002e+00
25	TRT070000	86.9930	87.7297	87.3515	1.6223e-01	1.9002e+00
26	TRT100000	86.9340	88.0871	87.5524	2.1952e-01	1.9002e+00
27	TRT120000	86.9504	87.5801	87.3100	1.5308e-01	1.9002e+00
28	TRT125000	86.9171	87.6493	87.3396	1.9213e-01	1.9002e+00
29	TRT130000	86.7196	87.4543	87.0392	1.4682e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6338	2.1284e-01	1.9011e+00
31	TAF050136	87.0219	87.9656	87.5506	1.9718e-01	1.9002e+00
32	TAF070136	87.3354	88.3820	87.9333	2.2296e-01	1.9002e+00
33	TAF080136	86.9627	87.6945	87.3515	1.7235e-01	1.9002e+00
34	TAF090136	84.7859	85.8368	85.4036	2.5416e-01	1.9002e+00
35	TAF100136	86.8233	87.6639	87.2029	1.8928e-01	1.9002e+00
36	TAF105136	86.8485	87.8887	87.2882	2.3128e-01	1.9002e+00
37	TAF110136	86.5859	87.4246	87.0478	1.6990e-01	1.9002e+00
38	TAF115136	87.2251	88.0646	87.6620	2.4061e-01	1.9002e+00
39	TAF120136	86.9407	87.4663	87.2431	1.2989e-01	1.9002e+00
40	TAF125136	87.0219	87.8574	87.4755	2.3574e-01	1.9002e+00
41	TAF130136	86.8180	87.7623	87.3342	2.0414e-01	1.9002e+00
42	TAF120048	87.2910	88.2389	87.7227	2.3512e-01	1.9002e+00
43	TAF130048	86.8522	87.5873	87.2573	1.9755e-01	1.9002e+00
44	TAF120224	86.9249	87.6602	87.3471	1.9353e-01	1.9002e+00
45	TAF130224	86.2976	87.2468	86.7952	1.9843e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0490	1.9502e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1418	9.9334e-02	1.9010e+00
48	TAI130138	86.8206	88.1854	87.4871	3.1085e-01	1.9002e+00
49	TAI130226	86.3561	87.3001	86.8465	2.2276e-01	1.9002e+00
50	TAI130314	86.9669	88.0181	87.5399	2.8640e-01	1.9002e+00
51	TAI130042	86.4476	87.3932	86.8787	2.0488e-01	1.9002e+00
52	TRR130090	86.2290	87.3819	86.8623	2.4115e-01	1.9002e+00
53	TSI000001	81.5901	82.3282	81.9497	1.8618e-01	1.9001e+00
54	TSI000002	71.6673	72.8350	72.3844	2.7347e-01	1.9000e+00
55	TSO000001	67.5137	68.6900	68.2318	2.3415e-01	1.9000e+00
56	TSO000002	79.5718	80.2061	79.9558	1.7473e-01	1.9001e+00
57	TAF020136	86.3427	87.0816	86.7281	1.9552e-01	1.9002e+00
58	TAF120312	86.5307	87.6852	87.0942	2.6716e-01	1.9002e+00
59	TAF130312	86.2141	86.9492	86.5936	1.8407e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4709	2.4538e-03	0.0000e+00
61	EMPTY	0.4785	0.4883	0.4856	2.6485e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.4984	1.3508e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5152	2.4662e-03	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3265	1.9934e-03	0.0000e+00
65	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3617	1.3508e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3807	9.7615e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3953	9.7615e-04	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4133	2.3483e-03	0.0000e+00
70	EMPTY	0.4248	0.4346	0.4296	1.5727e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4538	1.1827e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4672	2.3135e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4859	2.4662e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5026	1.1827e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5189	2.1781e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5332	1.9883e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5523	1.4934e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5764	9.7615e-04	0.0000e+00
79	EMPTY	0.5957	0.6055	0.6006	9.9670e-04	0.0000e+00
80	PAN020136	-17.4550	-16.9209	-17.2214	1.6585e-01	8.7106e-01
81	PAN050136	-33.2329	-32.3174	-32.7066	2.3937e-01	1.6820e+00
82	PAN070136	-21.9093	-21.2226	-21.6197	1.4186e-01	8.7168e-01
83	PAN080136	-11.6406	-11.1828	-11.4429	1.0083e-01	8.7047e-01
84	PAN090136	-10.5651	-10.2599	-10.4109	6.8752e-02	8.7039e-01
85	PAN100136	-10.8409	-10.4595	-10.6510	7.1574e-02	8.7041e-01
86	PAN105136	-5.5392	-5.2341	-5.3680	6.3318e-02	8.7010e-01
87	PAN110136	-5.4410	-5.2884	-5.3771	5.6895e-02	8.7010e-01
88	PAN115136	-5.1227	-4.8938	-5.0308	5.3902e-02	8.7009e-01
89	PAN120136	-6.0997	-5.9471	-6.0156	4.9847e-02	8.7013e-01
90	PAN125136	-5.9912	-5.7623	-5.8651	6.1414e-02	8.7012e-01
91	PAN130136	-5.3691	-5.1402	-5.2538	6.9859e-02	8.7010e-01
92	PAN120048	-10.4272	-10.1983	-10.3182	4.9248e-02	8.7038e-01
93	PAN130048	-10.8234	-10.5945	-10.7455	7.0494e-02	8.7041e-01
94	PAN120224	-10.8028	-10.5739	-10.7281	6.3240e-02	8.7041e-01
95	PAN130224	-10.9158	-10.6869	-10.7569	5.9987e-02	8.7042e-01
96	PAN120312	-11.3559	-11.0507	-11.1675	7.8026e-02	8.7045e-01
97	PAN130312	-10.5342	-10.3053	-10.4579	6.2294e-02	8.7039e-01
98	PAB000136	23.5902	23.7733	23.6742	5.1475e-02	5.8301e-01
99	PAB100136	27.2365	27.4653	27.3486	4.9498e-02	5.8402e-01
100	PAB125136	28.2937	28.4310	28.3591	4.7646e-02	5.8432e-01

Test: May01_14

sum2

Date: Tue May 1 12:19:03 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.1855	23.6738	23.4371	9.4582e-02	7.5229e-01
102	PRV000001	26.5800	26.7021	26.6647	5.6843e-02	7.5296e-01
103	PSR000001	28.7327	28.8547	28.8373	4.3158e-02	7.5346e-01
104	PFM000001	1.1726	1.4473	1.2885	7.1835e-02	5.0001e-01
105	PAN000136	-136.5626	-133.3582	-135.1519	7.8087e-01	4.9316e+00
106	PFM000002	2.2604	2.5289	2.4049	6.7103e-02	2.0009e-01
107	EMPTY	-0.0049	0.0000	-0.0036	2.1781e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8525	-9.4206	2.0363e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0007	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0107	8.9148e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	0.0027	9.3759e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0032	9.7656e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0731	9.8648e-02	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0233	8.7123e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0064	8.2141e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.5041	1.1272e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1395	1.1266e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.1622	9.1336e-01	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.1541	2.8370e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2246	2.8545e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	0.0132	2.8370e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.2344e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.9629e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.1228e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0149	3.3665e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0484	1.1248e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0215	1.0941e-01	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0228	8.4477e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0537	9.9629e-02	4.1000e+00
132	IHT000005	-0.2554	0.3305	0.0196	1.1219e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1106	1.1044e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0597	1.0315e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0468	1.1362e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0399	9.4620e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0688	8.2141e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0009	7.8092e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0165	8.8965e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	8.8783e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0838	9.9629e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0239	8.5810e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0179	6.7148e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0606	1.6895e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0246	1.1044e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1398	1.1219e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0123	9.3759e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0507	8.3122e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1186	9.8483e-02	4.1000e+00
150	IHT000023	-0.3080	0.0826	-0.0569	9.7656e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0606	8.9148e-02	4.1000e+00
152	IHT000025	-0.2554	-0.0601	-0.1199	9.0949e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0474	6.4688e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0460	5.4032e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0502	1.0268e-01	4.1000e+00

Test: May01_14

sum2

Date: Tue May 1 12:19:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0091	6.9053e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0736	9.8483e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0475	9.8153e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0153	6.2908e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0080	7.9328e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0335	9.9303e-02	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0581	1.1362e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0120	6.1868e-02	4.1000e+00

Test: May01_14 dif Date: Tue May 1 12:19:03 1990 Page: 1

Velocity 1 = 0.006700 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.002000 (psi)

Tsat in = 0.151001 (deg F) Tsat out = 0.183395 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0241	0.0322
1	TRF000002	0.0244	0.0325
2	TFM000001	0.0023	0.0026
3	TIN000001	0.0372	0.0427
4	TRV000001	0.1223	0.1404
5	TSR000001	0.0337	0.0387
6	TAO020136	0.1047	0.1197
7	TAO050136	0.0370	0.0423
8	TAO070136	0.0274	0.0320
9	TAO080136	0.0158	0.0181
10	TAO090136	0.0098	0.0112
11	TAO100136	0.0138	0.0158
12	TAO105136	0.0239	0.0272
13	TAO110136	0.0187	0.0219
14	TAO115136	0.0160	0.0183
15	TAO120136	0.0338	0.0388
16	TAO125136	0.0305	0.0350
17	TAO130136	0.0325	0.0374
18	TAO120048	0.0166	0.0190
19	TAO130048	0.0375	0.0432
20	TAO120224	0.0690	0.0793
21	TAO130224	0.0208	0.0239
22	TAO120312	0.0462	0.0531
23	TAO130312	0.0474	0.0546
24	TRT020000	0.0208	0.0237
25	TRT070000	0.0117	0.0134
26	TRT100000	0.0856	0.0979
27	TRT120000	0.0450	0.0516
28	TRT125000	0.0668	0.0765
29	TRT130000	0.0336	0.0386
30	EMPTY	0.0006	0.0015
31	TAF050136	0.0420	0.0480
32	TAF070136	0.0370	0.0421
33	TAF080136	0.0202	0.0231
34	TAF090136	0.0460	0.0539
35	TAF100136	0.0307	0.0352
36	TAF105136	0.0495	0.0567
37	TAF110136	0.0051	0.0059
38	TAF115136	0.0255	0.0291
39	TAF120136	0.0039	0.0045
40	TAF125136	0.0528	0.0604
41	TAF130136	0.0586	0.0671
42	TAF120048	0.0742	0.0847
43	TAF130048	0.0354	0.0406
44	TAF120224	0.0106	0.0121
45	TAF130224	0.0174	0.0200

#	Name	Abs Diff	%Diff
46	EMPTY	0.0634	0.1664
47	EMPTY	0.0460	0.1174
48	TAI130138	0.0071	0.0081
49	TAI130226	0.0161	0.0185
50	TAI130314	0.0094	0.0107
51	TAI130042	0.0150	0.0173
52	TRR130090	0.0294	0.0339
53	TSI000001	0.0009	0.0011
54	TSI000002	0.0419	0.0579
55	TSO000001	0.0177	0.0259
56	TSO000002	0.0077	0.0096
57	TAF020136	0.0394	0.0455
58	TAF120312	0.0386	0.0443
59	TAF130312	0.0306	0.0353
60	EMPTY	0.0001	0.0212
61	EMPTY	0.0011	0.2270
62	EMPTY	0.0001	0.0201
63	EMPTY	0.0013	0.2530
64	EMPTY	0.0005	0.1534
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0263
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0002	0.0484
70	EMPTY	0.0001	0.0233
71	EMPTY	0.0002	0.0441
72	EMPTY	0.0009	0.1930
73	EMPTY	0.0006	0.1236
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0001	0.0193
76	EMPTY	0.0005	0.0939
77	EMPTY	0.0002	0.0362
78	EMPTY	0.0003	0.0521
79	EMPTY	0.0001	0.0167
80	PAN020136	0.0228	0.1326
81	PAN050136	0.0230	0.0704
82	PAN070136	0.0126	0.0583
83	PAN080136	0.0710	0.6166
84	PAN090136	0.1144	1.1111
85	PAN100136	0.0023	0.0216
86	PAN105136	0.0027	0.0503
87	PAN110136	0.0028	0.0520
88	PAN115136	0.0247	0.4886
89	PAN120136	0.0029	0.0482
90	PAN125136	0.0082	0.1400
91	PAN130136	0.0083	0.1582
92	PAN120048	0.0207	0.2010
93	PAN130048	0.0137	0.1277
94	PAN120224	0.0016	0.0149
95	PAN130224	0.0124	0.1151
96	PAN120312	0.0205	0.1832
97	PAN130312	0.1190	1.1510
98	PAB000136	0.0639	0.2706
99	PAB100136	0.0664	0.2434
100	PAB125136	0.0901	0.3187

Test: May01_14

dif

Date: Tue May 1 12:19:03 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0758	0.3245
102	PRV000001	0.0349	0.1307
103	PSR000001	0.0973	0.3386
104	PFM000001	0.0060	0.4678
105	PAN000136	0.0557	0.0412
106	PFM000002	0.0012	0.0499
107	EMPTY	0.0001	2.7027
108	EMPTY	0.0245	0.2534
109	EMPTY	0.0007	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0224	67.6737
113	VPW000002	0.0243	112.5000
114	VPW000003	0.0011	52.3810
115	VPW000004	0.0058	8.6181
116	VPW000005	0.0167	41.7500
117	VPW000006	0.0270	131.0680
118	IPW000001	0.1506	23.0029
119	IPW000002	0.1393	69650.0078
120	IPW000003	0.0477	22.7251
121	IPW000004	0.0925	150.1623
122	IPW000005	0.1300	137.4207
123	IPW000006	0.1608	108.9431
124	EMPTY	0.0004	1.9704
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0011	6.6667
127	EMPTY	0.0004	2.7586
128	IHT000001	0.0038	8.5202
129	IHT000002	0.0069	24.2958
130	IHT000003	0.0116	33.7209
131	IHT000004	0.0199	58.8757
132	IHT000005	0.0172	716.6666
133	IHT000006	0.0188	20.4793
134	IHT000007	0.0064	12.0075
135	IHT000008	0.0020	4.0984
136	IHT000009	0.0278	41.0635
137	IHT000010	0.0317	85.4448
138	IHT000011	0.0198	104.7619
139	IHT000012	0.0008	4.6243
140	IHT000013	0.0080	10.1394
141	IHT000014	0.0200	31.3480
142	IHT000015	0.0083	53.2051
143	IHT000016	0.0120	40.1338
144	IHT000017	0.0002	0.3311
145	IHT000018	0.0032	11.5108
146	IHT000019	0.0250	21.7770
147	IHT000020	0.0127	50.8000
148	IHT000021	0.0110	27.7078
149	IHT000022	0.0450	61.1413
150	IHT000023	0.0067	13.3466
151	IHT000024	0.0441	42.1203
152	IHT000025	0.0246	25.8132
153	IHT000026	0.0122	20.4698
154	IHT000027	0.0003	0.6565
155	IHT000028	0.0278	124.1072

Test: May01_14 dif Date: Tue May 1 12:19:03 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0162	228.1690
157	IHT000030	0.0136	15.5963
158	IHT000031	0.0060	14.4578
159	IHT000032	0.0001	0.6579
160	IHT000033	0.0002	2.5641
161	IHT000034	0.0105	23.8636
162	IHT000035	0.0292	101.0381
163	IHT000036	0.0232	65.9091

Test: May01_15

sum1

Date: Tue May 1 12:20:47 1990

Page: 1

Velocity 1 = 2.0966 (ft/sec) (+/- 40.0264 %)
Velocity 2 = 3.4452 (ft/sec) (+/- 5.4172 %)
Pressure drop = -5.1311 (psi)
Tsat in = 236.4030 (deg F) Tsat out = 247.2315 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 9052.5488 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2335.0264 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9732	1.8781e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1838	1.1503e-01	1.9000e+00
2	TFM000001	87.0466	87.8849	87.5553	1.8936e-01	1.9002e+00
3	TIN000001	86.8824	87.5136	87.1624	1.4345e-01	1.9002e+00
4	TRV000001	86.8754	87.9208	87.3670	2.1169e-01	1.9002e+00
5	TSR000001	86.8001	87.4283	87.1584	1.3749e-01	1.9002e+00
6	TAO020136	87.1570	88.1033	87.6637	2.5974e-01	1.9002e+00
7	TAO050136	87.1258	87.8583	87.5334	1.3751e-01	1.9002e+00
8	TAO070136	85.3558	86.1989	85.7795	1.8374e-01	1.9002e+00
9	TAO080136	87.0162	87.6455	87.2997	1.5001e-01	1.9002e+00
10	TAO090136	87.0939	87.9328	87.5530	2.0626e-01	1.9002e+00
11	TAO100136	86.9583	87.6927	87.3672	1.5903e-01	1.9002e+00
12	TAO105136	87.5543	88.2904	87.9141	1.6999e-01	1.9002e+00
13	TAO110136	85.2807	85.9084	85.5887	1.6188e-01	1.9002e+00
14	TAO115136	87.1150	87.9567	87.5380	2.1308e-01	1.9002e+00
15	TAO120136	86.9469	87.4708	87.2252	1.5488e-01	1.9002e+00
16	TAO125136	87.1352	87.8700	87.4398	1.6724e-01	1.9002e+00
17	TAO130136	86.7653	87.3927	86.9987	1.2568e-01	1.9002e+00
18	TAO120048	86.9787	87.6090	87.3295	1.6913e-01	1.9002e+00
19	TAO130048	86.5970	87.2268	86.9225	1.6986e-01	1.9002e+00
20	TAO120224	86.7992	87.5347	87.2089	1.6469e-01	1.9002e+00
21	TAO130224	86.8056	87.4344	87.1389	1.4906e-01	1.9002e+00
22	TAO120312	86.7253	87.4606	87.1684	1.6614e-01	1.9002e+00
23	TAO130312	86.6592	87.3938	86.9680	1.4138e-01	1.9002e+00
24	TRT020000	87.1308	88.1827	87.6673	2.0189e-01	1.9002e+00
25	TRT070000	87.2026	87.7297	87.4877	1.3496e-01	1.9002e+00
26	TRT100000	87.2480	88.0871	87.7283	2.0525e-01	1.9002e+00
27	TRT120000	87.1594	87.7896	87.4515	1.6600e-01	1.9002e+00
28	TRT125000	87.1255	87.8570	87.4792	1.6762e-01	1.9002e+00
29	TRT130000	86.8244	87.4543	87.1583	1.6911e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6653	2.0112e-01	1.9011e+00
31	TAF050136	87.2320	87.9656	87.6697	1.6092e-01	1.9002e+00
32	TAF070136	87.6494	88.5905	88.0529	2.1552e-01	1.9002e+00
33	TAF080136	87.1709	87.7997	87.4584	1.6741e-01	1.9002e+00
34	TAF090136	84.8909	86.0465	85.4982	2.8874e-01	1.9002e+00
35	TAF100136	87.0329	87.5592	87.3382	1.5643e-01	1.9002e+00
36	TAF105136	86.8491	87.8934	87.4523	2.3751e-01	1.9002e+00
37	TAF110136	86.7946	87.5284	87.1787	1.6629e-01	1.9002e+00
38	TAF115136	87.4346	88.1687	87.7727	2.0016e-01	1.9002e+00
39	TAF120136	87.1508	87.6752	87.4462	1.3022e-01	1.9002e+00
40	TAF125136	87.1249	88.0650	87.5707	2.2581e-01	1.9002e+00
41	TAF130136	87.1335	87.7623	87.4286	1.5822e-01	1.9002e+00
42	TAF120048	87.3958	88.1336	87.8321	1.6517e-01	1.9002e+00
43	TAF130048	87.0623	87.6915	87.3623	1.8233e-01	1.9002e+00
44	TAF120224	87.0295	87.8700	87.4981	2.1134e-01	1.9002e+00
45	TAF130224	86.6147	87.2468	86.9413	1.8832e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.6909e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1648	6.2930e-02	1.9010e+00
48	TAI130138	86.9254	88.1846	87.6541	3.0312e-01	1.9002e+00
49	TAI130226	86.5663	87.4044	86.9622	1.7874e-01	1.9002e+00
50	TAI130314	87.0719	88.2282	87.7470	2.8344e-01	1.9002e+00
51	TAI130042	86.7625	87.6031	87.0884	2.1671e-01	1.9002e+00
52	TRR130090	86.3339	87.5913	86.9816	2.4852e-01	1.9002e+00
53	TSI000001	81.4856	82.3282	81.9004	2.0017e-01	1.9001e+00
54	TSI000002	71.8801	72.8350	72.4887	2.2757e-01	1.9000e+00
55	TSO000001	67.9408	68.6900	68.3543	1.8848e-01	1.9000e+00
56	TSO000002	79.5718	80.4170	80.0219	1.8201e-01	1.9001e+00
57	TAF020136	86.4485	87.2917	86.8596	1.7848e-01	1.9002e+00
58	TAF120312	86.6355	87.6852	87.2213	2.3037e-01	1.9002e+00
59	TAF130312	86.3190	86.9492	86.6991	1.6545e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4736	9.8648e-04	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5028	6.9053e-04	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3270	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3470	1.1714e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3646	2.3365e-03	0.0000e+00
67	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5176	0.5273	0.5225	9.8648e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5664	0.5567	1.8429e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5783	2.4484e-03	0.0000e+00
79	EMPTY	0.5957	0.6055	0.6025	2.6100e-03	0.0000e+00
80	PAN020136	-18.2942	-17.6076	-18.0058	1.4808e-01	8.7116e-01
81	PAN050136	-34.7588	-33.6907	-34.2797	2.3681e-01	1.6822e+00
82	PAN070136	-22.9774	-22.3670	-22.7226	1.3839e-01	8.7185e-01
83	PAN080136	-12.2509	-11.8695	-12.0465	8.3633e-02	8.7052e-01
84	PAN090136	-10.9465	-10.6414	-10.8077	7.9631e-02	8.7042e-01
85	PAN100136	-11.2987	-10.9935	-11.1766	6.3552e-02	8.7045e-01
86	PAN105136	-5.7681	-5.5392	-5.6720	6.1288e-02	8.7012e-01
87	PAN110136	-5.8224	-5.5173	-5.6561	5.9077e-02	8.7011e-01
88	PAN115136	-5.5041	-5.2753	-5.3821	5.7673e-02	8.7010e-01
89	PAN120136	-6.0997	-5.9471	-6.0173	5.0748e-02	8.7013e-01
90	PAN125136	-6.1438	-5.9912	-6.0415	4.2521e-02	8.7013e-01
91	PAN130136	-5.5979	-5.3691	-5.5018	5.5167e-02	8.7011e-01
92	PAN120048	-11.0375	-10.7323	-10.8910	7.0365e-02	8.7043e-01
93	PAN130048	-11.4337	-11.2048	-11.2750	6.1346e-02	8.7046e-01
94	PAN120224	-11.3369	-11.1080	-11.2148	5.1121e-02	8.7045e-01
95	PAN130224	-11.3735	-11.2209	-11.2881	5.2588e-02	8.7046e-01
96	PAN120312	-11.8136	-11.5085	-11.6565	6.7908e-02	8.7049e-01
97	PAN130312	-11.1446	-10.8394	-11.0118	6.1288e-02	8.7044e-01
98	PAB000136	23.3613	23.5444	23.4492	4.1194e-02	5.8296e-01
99	PAB100136	27.2365	27.3738	27.3207	4.0692e-02	5.8401e-01
100	PAB125136	28.2937	28.4310	28.3770	3.7782e-02	5.8432e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	23.1855	23.5517	23.3686	7.0836e-02	7.5227e-01
102	PRV0000001	26.5800	26.7021	26.6947	2.9284e-02	7.5296e-01
103	PSR0000001	28.8547	28.9768	28.8767	4.7374e-02	7.5347e-01
104	PFM0000001	0.5317	0.7149	0.6251	6.7935e-02	5.0000e-01
105	PAN000136	-143.4290	-140.6825	-142.0557	7.0432e-01	4.9328e+00
106	PFM0000002	1.6564	1.8409	1.7466	3.8636e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0043	1.6028e-03	0.0000e+00
108	EMPTY	-9.6973	-9.0088	-9.3099	1.4666e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0012	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW0000001	-0.0451	0.1502	-0.0138	7.2330e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0373	5.5243e-02	8.1000e-01
114	VPW0000003	-0.2479	0.3380	0.0099	1.2124e-01	8.1000e-01
115	VPW0000004	-0.1728	0.0225	-0.1025	9.4702e-02	8.1000e-01
116	VPW0000005	-0.1202	0.2704	0.0126	1.0014e-01	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0146	9.9902e-02	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-1.3966	1.1156e+00	8.1000e+00
119	IPW0000002	-0.9755	2.9271	0.7416	1.2859e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.5999	8.8092e-01	8.1000e+00
121	IPW0000004	-0.9015	0.0751	-0.3937	1.3811e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	-0.1825	2.6632e-01	2.0000e+00
123	IPW0000006	-0.7043	0.7606	-0.0988	3.2057e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.2178e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.3728e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.5568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.0003e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0485	1.0410e-01	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0305	7.2866e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0338	8.8233e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0102	1.0259e-01	4.1000e+00
133	IHT0000006	-0.1465	0.2441	-0.0918	9.6976e-02	4.1000e+00
134	IHT0000007	-0.0638	0.3268	0.0924	9.6655e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0449	9.8569e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0404	8.4997e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0723	1.0168e-01	4.1000e+00
138	IHT0000011	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0095	1.0106e-01	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0756	8.2864e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0234	8.4997e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0104	7.5283e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0370	1.9266e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0512	1.0763e-01	4.1000e+00
146	IHT0000019	-0.2554	-0.0601	-0.1226	9.2034e-02	4.1000e+00
147	IHT0000020	-0.0601	0.3305	-0.0132	9.3043e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.1049	1.0595e-01	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT0000024	-0.0789	0.1164	0.0735	8.1729e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0796	9.8648e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0323	7.8918e-02	4.1000e+00
154	IHT0000027	-0.2254	-0.0300	-0.0574	6.8459e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0458	1.1334e-01	4.1000e+00

Test: May01_15

sum1

Date: Tue May 1 12:20:47 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0046	6.4113e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0793	1.0559e-01	4.1000e+00
158	IHT000031	-0.3305	0.2554	-0.0571	1.1161e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0167	8.1729e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0523	9.8332e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0156	6.6498e-02	4.1000e+00

Test: May01_15

sum2

Date: Tue May 1 12:20:47 1990

Page: 1

Velocity 1 = 2.0967 (ft/sec) (+/- 40.0240 %)
Velocity 2 = 3.4401 (ft/sec) (+/- 5.4322 %)
Pressure drop = -5.1324 (psi)
Tsat in = 236.4295 (deg F) Tsat out = 247.2596 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 6869.2339 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2382.6143 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9584	1.7972e-01	1.9000e+00
1	TRF000002	75.0738	75.2854	75.1429	1.0026e-01	1.9000e+00
2	TFM000001	87.1508	87.9890	87.5464	1.9988e-01	1.9002e+00
3	TIN000001	86.8825	87.5136	87.1617	1.3501e-01	1.9002e+00
4	TRV000001	87.1879	87.8161	87.5175	1.6812e-01	1.9002e+00
5	TSR000001	86.9041	87.5336	87.1485	1.5037e-01	1.9002e+00
6	TAO020136	87.2624	88.2080	87.6891	2.1707e-01	1.9002e+00
7	TAO050136	87.2291	87.8583	87.4990	1.4499e-01	1.9002e+00
8	TAO070136	85.4613	86.1989	85.7905	1.8707e-01	1.9002e+00
9	TAO080136	87.0162	87.6455	87.3116	1.7320e-01	1.9002e+00
10	TAO090136	87.1987	87.8275	87.4960	1.7814e-01	1.9002e+00
11	TAO100136	87.0625	87.4833	87.3370	1.2643e-01	1.9002e+00
12	TAO105136	87.4496	88.2904	87.9386	2.0068e-01	1.9002e+00
13	TAO110136	85.3842	86.0138	85.6245	1.6545e-01	1.9002e+00
14	TAO115136	87.2203	88.0619	87.5252	1.8997e-01	1.9002e+00
15	TAO120136	86.9474	87.4708	87.1967	1.4304e-01	1.9002e+00
16	TAO125136	87.1358	87.8700	87.4460	1.4193e-01	1.9002e+00
17	TAO130136	86.7653	87.3927	86.9966	1.4289e-01	1.9002e+00
18	TAO120048	86.9787	87.6090	87.3003	1.5211e-01	1.9002e+00
19	TAO130048	86.5970	87.2268	86.8671	1.5136e-01	1.9002e+00
20	TAO120224	86.7992	87.4297	87.1980	1.4994e-01	1.9002e+00
21	TAO130224	86.8056	87.4344	87.1008	1.5638e-01	1.9002e+00
22	TAO120312	86.8299	87.6705	87.1389	1.7737e-01	1.9002e+00
23	TAO130312	86.5544	87.1846	86.9357	1.2991e-01	1.9002e+00
24	TRT020000	87.3413	88.0774	87.6591	1.7242e-01	1.9002e+00
25	TRT070000	87.0978	87.7309	87.4592	1.6097e-01	1.9002e+00
26	TRT100000	87.3534	87.9818	87.6591	1.6269e-01	1.9002e+00
27	TRT120000	87.1594	87.7896	87.4382	1.5081e-01	1.9002e+00
28	TRT125000	87.1250	87.9623	87.5223	1.9905e-01	1.9002e+00
29	TRT130000	86.8244	87.4543	87.1415	1.4597e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.7040	2.0422e-01	1.9011e+00
31	TAF050136	87.3359	87.9656	87.6273	1.8065e-01	1.9002e+00
32	TAF070136	87.6494	88.3820	88.0482	1.9519e-01	1.9002e+00
33	TAF080136	87.2763	87.7997	87.4916	1.2523e-01	1.9002e+00
34	TAF090136	84.7859	86.2562	85.3864	2.9230e-01	1.9002e+00
35	TAF100136	87.0334	87.7692	87.3573	1.8189e-01	1.9002e+00
36	TAF105136	86.9539	87.8934	87.4580	2.2646e-01	1.9002e+00
37	TAF110136	86.7946	87.4246	87.1331	1.5334e-01	1.9002e+00
38	TAF115136	87.4346	88.2739	87.7816	2.0545e-01	1.9002e+00
39	TAF120136	87.1508	87.6752	87.4137	1.3563e-01	1.9002e+00
40	TAF125136	87.1249	88.0656	87.5604	2.4402e-01	1.9002e+00
41	TAF130136	87.1323	87.8664	87.4238	1.5915e-01	1.9002e+00
42	TAF120048	87.1844	88.2389	87.7787	2.1607e-01	1.9002e+00
43	TAF130048	87.0623	87.6915	87.3598	1.6495e-01	1.9002e+00
44	TAF120224	87.1349	88.0799	87.5013	1.8703e-01	1.9002e+00
45	TAF130224	86.5089	87.3526	86.9158	1.8007e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0725	1.9000e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1793	8.1188e-02	1.9010e+00
48	TAI130138	87.1361	88.1854	87.6583	2.6622e-01	1.9002e+00
49	TAI130226	86.4609	87.4039	86.9489	1.6785e-01	1.9002e+00
50	TAI130314	87.0719	88.2288	87.6514	2.8486e-01	1.9002e+00
51	TAI130042	86.6578	87.6024	87.0072	1.8369e-01	1.9002e+00
52	TRR130090	86.4380	87.4872	86.9392	2.0889e-01	1.9002e+00
53	TSI000001	81.4850	82.3282	81.8852	1.6521e-01	1.9001e+00
54	TSI000002	71.9854	72.8350	72.4967	2.2872e-01	1.9000e+00
55	TSO000001	67.9414	68.6908	68.3498	1.7145e-01	1.9000e+00
56	TSO000002	79.5718	80.5225	80.0418	1.6279e-01	1.9001e+00
57	TAF020136	86.4485	87.2917	86.8746	1.9484e-01	1.9002e+00
58	TAF120312	86.6355	87.6852	87.1797	2.7391e-01	1.9002e+00
59	TAF130312	86.3190	86.9492	86.6832	1.5606e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4739	1.1827e-03	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4888	1.4934e-03	0.0000e+00
62	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
63	EMPTY	0.5127	0.5225	0.5182	1.8997e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3272	6.9754e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.7615e-04	0.0000e+00
66	EMPTY	0.3564	0.3662	0.3650	2.3440e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3819	1.9883e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4300	1.1827e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9754e-04	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9754e-04	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5032	1.1827e-03	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5369	9.7615e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5562	1.3508e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5795	2.3135e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6026	2.4247e-03	0.0000e+00
80	PAN020136	-18.2942	-17.7602	-18.0124	1.3595e-01	8.7116e-01
81	PAN050136	-34.6062	-33.8433	-34.2637	1.8825e-01	1.6822e+00
82	PAN070136	-22.9774	-22.4433	-22.7142	1.1660e-01	8.7185e-01
83	PAN080136	-12.1746	-11.8695	-12.0470	7.0318e-02	8.7052e-01
84	PAN090136	-10.9465	-10.7176	-10.8204	6.5243e-02	8.7042e-01
85	PAN100136	-11.2987	-11.0698	-11.1679	6.0316e-02	8.7045e-01
86	PAN105136	-5.7681	-5.5392	-5.6872	6.3083e-02	8.7012e-01
87	PAN110136	-5.8224	-5.5173	-5.6683	7.0494e-02	8.7012e-01
88	PAN115136	-5.5041	-5.2753	-5.3827	4.9046e-02	8.7010e-01
89	PAN120136	-6.0997	-5.9471	-6.0063	4.9897e-02	8.7013e-01
90	PAN125136	-6.1438	-5.9912	-6.0394	4.3197e-02	8.7013e-01
91	PAN130136	-5.5979	-5.4453	-5.4921	4.8793e-02	8.7011e-01
92	PAN120048	-11.0375	-10.7323	-10.8865	6.1292e-02	8.7043e-01
93	PAN130048	-11.4337	-11.1285	-11.2702	6.9647e-02	8.7046e-01
94	PAN120224	-11.4132	-11.2606	-11.2964	5.4177e-02	8.7046e-01
95	PAN130224	-11.3735	-11.2209	-11.2863	4.9248e-02	8.7046e-01
96	PAN120312	-11.7374	-11.5085	-11.6346	7.0599e-02	8.7049e-01
97	PAN130312	-11.0683	-10.8394	-10.9998	6.2769e-02	8.7043e-01
98	PAB000136	23.3613	23.6359	23.4603	5.3959e-02	5.8296e-01
99	PAB100136	27.1907	27.4196	27.3355	4.3172e-02	5.8401e-01
100	PAB125136	28.3395	28.4768	28.3908	4.7308e-02	5.8433e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.3076	23.5517	23.4022	5.7176e-02	7.5228e-01
102	PRV000001	26.5800	26.7021	26.6821	4.5586e-02	7.5296e-01
103	PSR000001	28.8547	28.9768	28.9070	6.1035e-02	7.5347e-01
104	PFM000001	0.4402	0.7149	0.6252	7.5888e-02	5.0000e-01
105	PAN000136	-143.4290	-140.6825	-142.0931	5.7477e-01	4.9328e+00
106	PFM000002	1.6564	1.8242	1.7413	4.3515e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0036	2.1781e-03	0.0000e+00
108	EMPTY	-9.7070	-9.1797	-9.3774	1.4061e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0013	2.1781e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0092	9.4962e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0371	5.5804e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0088	1.1462e-01	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0971	1.0409e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0313	1.0746e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0303	8.4477e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1017	1.1315e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4979	1.0179e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.9979	9.7334e-01	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.4032	2.1119e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.0452	3.0568e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.1761	3.1260e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.4497e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.5110e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	2.9388e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0142	3.4877e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0683	9.2715e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0295	9.7656e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0307	4.7310e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0418	5.5804e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0117	1.0315e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0907	9.7656e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0797	8.7123e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0309	9.6990e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0439	7.1817e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0329	9.6318e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0071	7.9328e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0205	1.1044e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0828	7.4477e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0559	9.7323e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0159	5.4032e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0258	7.9328e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.1124	1.6049e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0406	1.1117e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1239	1.0836e-01	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0163	8.2338e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0428	7.9532e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0947	1.0486e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0489	9.2540e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.1005	7.8092e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0800	9.1305e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0355	7.6412e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0221	5.5804e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0343	8.8783e-02	4.1000e+00

Test: May01_15

sum2

Date: Tue May 1 12:20:47 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0131	7.2937e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0736	1.0625e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0395	1.1362e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0193	7.9328e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	7.9736e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0335	1.0701e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0422	1.0486e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0159	5.4032e-02	4.1000e+00

Test: May01_15 dif Date: Tue May 1 12:20:47 1990 Page: 1

Velocity 1 = 0.000100 (ft/sec)

Velocity 2 = 0.005100 (ft/sec)

Pressure Drop = 0.001300 (psi)

Tsat in = 0.026505 (deg F) Tsat out = 0.028091 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0148	0.0197
1	TRF000002	0.0409	0.0544
2	TFM000001	0.0089	0.0102
3	TIN000001	0.0007	0.0008
4	TRV000001	0.1505	0.1723
5	TSR000001	0.0099	0.0114
6	TAO020136	0.0254	0.0290
7	TAO050136	0.0344	0.0393
8	TAO070136	0.0110	0.0128
9	TAO080136	0.0119	0.0136
10	TAO090136	0.0570	0.0651
11	TAO100136	0.0302	0.0346
12	TAO105136	0.0245	0.0279
13	TAO110136	0.0358	0.0418
14	TAO115136	0.0128	0.0146
15	TAO120136	0.0285	0.0327
16	TAO125136	0.0062	0.0071
17	TAO130136	0.0021	0.0024
18	TAO120048	0.0292	0.0334
19	TAO130048	0.0554	0.0637
20	TAO120224	0.0109	0.0125
21	TAO130224	0.0381	0.0437
22	TAO120312	0.0295	0.0338
23	TAO130312	0.0323	0.0371
24	TRT020000	0.0082	0.0093
25	TRT070000	0.0285	0.0326
26	TRT100000	0.0692	0.0789
27	TRT120000	0.0133	0.0152
28	TRT125000	0.0431	0.0493
29	TRT130000	0.0168	0.0193
30	EMPTY	0.0387	0.0976
31	TAF050136	0.0424	0.0484
32	TAF070136	0.0047	0.0053
33	TAF080136	0.0332	0.0380
34	TAF090136	0.1118	0.1308
35	TAF100136	0.0191	0.0219
36	TAF105136	0.0057	0.0065
37	TAF110136	0.0456	0.0523
38	TAF115136	0.0089	0.0101
39	TAF120136	0.0325	0.0372
40	TAF125136	0.0103	0.0118
41	TAF130136	0.0048	0.0055
42	TAF120048	0.0534	0.0608
43	TAF130048	0.0025	0.0029
44	TAF120224	0.0032	0.0037
45	TAF130224	0.0255	0.0293

#	Name	Abs Diff	%Diff
46	EMPTY	0.0061	0.0160
47	EMPTY	0.0145	0.0370
48	TAI130138	0.0042	0.0048
49	TAI130226	0.0133	0.0153
50	TAI130314	0.0956	0.1090
51	TAI130042	0.0812	0.0932
52	TRR130090	0.0424	0.0487
53	TSI000001	0.0152	0.0186
54	TSI000002	0.0080	0.0110
55	TSO000001	0.0045	0.0066
56	TSO000002	0.0199	0.0249
57	TAF020136	0.0150	0.0173
58	TAF120312	0.0416	0.0477
59	TAF130312	0.0159	0.0183
60	EMPTY	0.0003	0.0633
61	EMPTY	0.0004	0.0819
62	EMPTY	0.0001	0.0199
63	EMPTY	0.0005	0.0966
64	EMPTY	0.0002	0.0612
65	EMPTY	0.0001	0.0288
66	EMPTY	0.0004	0.1097
67	EMPTY	0.0010	0.2625
68	EMPTY	0.0001	0.0253
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0003	0.0698
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0001	0.0213
73	EMPTY	0.0001	0.0205
74	EMPTY	0.0001	0.0199
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0186
77	EMPTY	0.0005	0.0898
78	EMPTY	0.0012	0.2075
79	EMPTY	0.0001	0.0166
80	PAN020136	0.0066	0.0367
81	PAN050136	0.0160	0.0467
82	PAN070136	0.0084	0.0370
83	PAN080136	0.0005	0.0041
84	PAN090136	0.0127	0.1175
85	PAN100136	0.0087	0.0778
86	PAN105136	0.0152	0.2680
87	PAN110136	0.0122	0.2157
88	PAN115136	0.0006	0.0111
89	PAN120136	0.0110	0.1828
90	PAN125136	0.0021	0.0348
91	PAN130136	0.0097	0.1763
92	PAN120048	0.0045	0.0413
93	PAN130048	0.0048	0.0426
94	PAN120224	0.0816	0.7276
95	PAN130224	0.0018	0.0160
96	PAN120312	0.0219	0.1879
97	PAN130312	0.0120	0.1090
98	PAB000136	0.0111	0.0473
99	PAB100136	0.0148	0.0542
100	PAB125136	0.0138	0.0486

Test: May01_15 dif Date: Tue May 1 12:20:47 1990 Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0336	0.1438
102	PRV000001	0.0126	0.0472
103	PSR000001	0.0303	0.1049
104	PFM000001	0.0001	0.0160
105	PAN000136	0.0374	0.0263
106	PFM000002	0.0053	0.3034
107	EMPTY	0.0007	16.2791
108	EMPTY	0.0675	0.7250
109	EMPTY	0.0001	8.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	66.6667
112	VPW000001	0.0046	33.3333
113	VPW000002	0.0002	0.5362
114	VPW000003	0.0187	188.8889
115	VPW000004	0.0054	5.2683
116	VPW000005	0.0187	148.4127
117	VPW000006	0.0157	107.5343
118	IPW000001	0.2949	21.1156
119	IPW000002	0.2437	32.8614
120	IPW000003	0.3980	66.3444
121	IPW000004	0.0095	2.4130
122	IPW000005	0.1373	75.2329
123	IPW000006	0.0773	78.2389
124	EMPTY	0.0004	1.9901
125	EMPTY	0.0001	0.7246
126	EMPTY	0.0012	6.8182
127	EMPTY	0.0009	5.9603
128	IHT000001	0.0198	40.8247
129	IHT000002	0.0128	76.6467
130	IHT000003	0.0002	0.6557
131	IHT000004	0.0080	23.6686
132	IHT000005	0.0015	14.7059
133	IHT000006	0.0011	1.1983
134	IHT000007	0.0127	13.7446
135	IHT000008	0.0140	31.1804
136	IHT000009	0.0035	8.6634
137	IHT000010	0.0394	54.4952
138	IHT000011	0.0155	184.5238
139	IHT000012	0.0110	115.7895
140	IHT000013	0.0117	16.4557
141	IHT000014	0.0197	26.0582
142	IHT000015	0.0075	32.0513
143	IHT000016	0.0154	148.0769
144	IHT000017	0.0754	203.7838
145	IHT000018	0.0106	20.7031
146	IHT000019	0.0013	1.0604
147	IHT000020	0.0031	23.4849
148	IHT000021	0.0031	7.8086
149	IHT000022	0.0102	9.7235
150	IHT000023	0.0065	15.3302
151	IHT000024	0.0270	36.7347
152	IHT000025	0.0004	0.5025
153	IHT000026	0.0032	9.9071
154	IHT000027	0.0353	61.4983
155	IHT000028	0.0115	25.1092

Test: May01_15 dif Date: Tue May 1 12:20:47 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0085	184.7826
157	IHT000030	0.0057	7.1879
158	IHT000031	0.0176	30.8231
159	IHT000032	0.0158	451.4286
160	IHT000033	0.0000	0.0000
161	IHT000034	0.0168	100.5988
162	IHT000035	0.0101	19.3117
163	IHT000036	0.0003	1.9231

Velocity 1 = 5.0509 (ft/sec) (+/- 6.7571 %)
Velocity 2 = 5.7294 (ft/sec) (+/- 2.4740 %)
Pressure drop = -4.0527 (psi)
Tsats in = 239.1814 (deg F) Tsats out = 247.5414 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 25612.2344 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3373.0054 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	75.0541	1.7702e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1626	1.1383e-01	1.9000e+00
2	TFM000001	87.3602	88.3036	87.9366	2.1194e-01	1.9002e+00
3	TIN000001	87.1982	87.9340	87.6040	1.4710e-01	1.9002e+00
4	TRV000001	87.2932	88.2330	87.7097	1.9402e-01	1.9002e+00
5	TSR000001	87.1129	87.6376	87.4176	1.4987e-01	1.9002e+00
6	TAO020136	87.6827	88.6280	88.1386	2.4711e-01	1.9002e+00
7	TAO050136	87.6462	88.2752	88.0217	1.4671e-01	1.9002e+00
8	TAO070136	85.6723	86.4097	86.1254	1.9766e-01	1.9002e+00
9	TAO080136	87.5386	88.0623	87.8046	1.5714e-01	1.9002e+00
10	TAO090136	87.6175	88.4560	88.0180	1.8663e-01	1.9002e+00
11	TAO100136	87.5869	88.1116	87.8618	1.2872e-01	1.9002e+00
12	TAO105136	88.0798	88.8157	88.3764	2.0968e-01	1.9002e+00
13	TAO110136	85.5926	86.2221	85.9267	1.6074e-01	1.9002e+00
14	TAO115136	87.5362	88.4827	88.0264	2.2648e-01	1.9002e+00
15	TAO120136	87.3633	88.0944	87.7122	1.4294e-01	1.9002e+00
16	TAO125136	87.6588	88.2887	87.9761	1.7277e-01	1.9002e+00
17	TAO130136	87.1785	87.9074	87.6024	1.5269e-01	1.9002e+00
18	TAO120048	87.5031	88.2373	87.8200	1.7287e-01	1.9002e+00
19	TAO130048	87.1202	87.7480	87.4617	1.5380e-01	1.9002e+00
20	TAO120224	87.3241	88.0587	87.6788	1.7344e-01	1.9002e+00
21	TAO130224	87.4295	87.9532	87.6674	1.4164e-01	1.9002e+00
22	TAO120312	87.2498	88.0901	87.6429	1.7598e-01	1.9002e+00
23	TAO130312	87.1823	87.7075	87.4662	1.2768e-01	1.9002e+00
24	TRT020000	87.5518	88.6033	88.1387	2.3469e-01	1.9002e+00
25	TRT070000	87.6256	88.3631	87.9734	1.6515e-01	1.9002e+00
26	TRT100000	87.8757	88.5052	88.1804	1.4395e-01	1.9002e+00
27	TRT120000	87.5784	88.2084	87.9460	1.3108e-01	1.9002e+00
28	TRT125000	87.5417	88.2736	87.9254	1.6586e-01	1.9002e+00
29	TRT130000	87.3480	87.9762	87.6980	1.3348e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2912e-01	1.9011e+00
31	TAF050136	87.8594	88.4874	88.1299	1.4055e-01	1.9002e+00
32	TAF070136	88.0668	89.0076	88.5205	2.0645e-01	1.9002e+00
33	TAF080136	87.5872	88.2158	87.9499	1.5408e-01	1.9002e+00
34	TAF090136	85.3118	86.4659	85.8215	2.5620e-01	1.9002e+00
35	TAF100136	87.4539	88.1894	87.8385	1.8701e-01	1.9002e+00
36	TAF105136	87.3700	88.3092	87.9103	2.3983e-01	1.9002e+00
37	TAF110136	87.3183	88.0518	87.6516	1.6084e-01	1.9002e+00
38	TAF115136	87.8534	88.6925	88.2502	1.9781e-01	1.9002e+00
39	TAF120136	87.6726	88.0931	87.9229	1.2167e-01	1.9002e+00
40	TAF125136	87.5438	88.5866	88.0875	2.6760e-01	1.9002e+00
41	TAF130136	87.5511	88.1809	87.9061	1.5112e-01	1.9002e+00
42	TAF120048	87.7124	88.6612	88.2714	2.1961e-01	1.9002e+00
43	TAF130048	87.4815	88.2157	87.8612	1.9293e-01	1.9002e+00
44	TAF120224	87.4494	88.2897	87.9432	1.9232e-01	1.9002e+00
45	TAF130224	87.1425	87.7747	87.3932	1.7145e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	2.0820e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1419	8.6680e-02	1.9010e+00
48	TAI130138	87.5553	88.7098	88.0948	3.0862e-01	1.9002e+00
49	TAI130226	86.9847	87.9272	87.4810	2.1863e-01	1.9002e+00
50	TAI130314	87.5978	88.6485	88.1801	2.7615e-01	1.9002e+00
51	TAI130042	87.0778	88.0228	87.5714	1.9471e-01	1.9002e+00
52	TRR130090	86.9624	87.9059	87.4048	2.3320e-01	1.9002e+00
53	TSI000001	81.5908	82.2225	81.8670	1.6339e-01	1.9001e+00
54	TSI000002	71.8801	72.9402	72.4974	2.6205e-01	1.9000e+00
55	TSO000001	68.1554	68.9041	68.4229	1.8369e-01	1.9000e+00
56	TSO000002	79.6778	80.4170	80.0179	2.0384e-01	1.9001e+00
57	TAF020136	86.9762	87.7137	87.3198	1.8411e-01	1.9002e+00
58	TAF120312	87.1602	88.1042	87.6783	2.5799e-01	1.9002e+00
59	TAF130312	86.8430	87.5769	87.2141	1.8130e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4842	1.8082e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4988	1.8082e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5285	2.1065e-03	0.0000e+00
64	EMPTY	0.3320	0.3320	0.3320	0.0000e+00	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3520	1.3381e-03	0.0000e+00
66	EMPTY	0.3662	0.3809	0.3704	2.4184e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3859	9.6655e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4197	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4348	9.6655e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
73	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
76	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5664	0.5615	9.8648e-04	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5835	2.4662e-03	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6065	2.0432e-03	0.0000e+00
80	PAN020136	-14.7847	-13.4877	-14.1972	2.9579e-01	8.7072e-01
81	PAN050136	-28.1975	-26.3665	-27.4163	4.1775e-01	1.6814e+00
82	PAN070136	-18.5523	-17.2553	-17.9084	2.9211e-01	8.7115e-01
83	PAN080136	-9.5044	-9.0466	-9.3411	9.8708e-02	8.7031e-01
84	PAN090136	-9.0392	-8.6577	-8.8591	8.9559e-02	8.7028e-01
85	PAN100136	-9.0099	-8.5521	-8.7459	9.0154e-02	8.7027e-01
86	PAN105136	-4.7000	-4.3948	-4.5398	6.0192e-02	8.7007e-01
87	PAN110136	-4.6017	-4.2966	-4.4720	7.2706e-02	8.7007e-01
88	PAN115136	-4.3597	-4.1308	-4.2666	7.4386e-02	8.7007e-01
89	PAN120136	-5.2605	-5.0316	-5.1170	6.8309e-02	8.7009e-01
90	PAN125136	-5.0756	-4.8468	-4.9566	6.5685e-02	8.7009e-01
91	PAN130136	-4.4535	-4.2246	-4.3360	4.6777e-02	8.7007e-01
92	PAN120048	-8.8250	-8.4435	-8.6343	9.1514e-02	8.7027e-01
93	PAN130048	-8.9923	-8.6108	-8.8153	8.6427e-02	8.7028e-01
94	PAN120224	-8.9718	-8.5903	-8.7871	7.7207e-02	8.7028e-01
95	PAN130224	-8.9321	-8.5506	-8.7871	8.1925e-02	8.7028e-01
96	PAN120312	-9.4485	-9.1434	-9.3051	7.4943e-02	8.7031e-01
97	PAN130312	-8.7794	-8.3980	-8.5490	7.9332e-02	8.7026e-01
98	PAB000136	24.5057	24.7804	24.6412	7.9535e-02	5.8326e-01
99	PAB100136	27.6484	27.7858	27.7079	4.0576e-02	5.8412e-01
100	PAB125136	28.4768	28.6141	28.5299	4.3731e-02	5.8437e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.2841	24.7724	24.5576	1.3633e-01	7.5251e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR000001	28.8547	28.9768	28.8938	5.7521e-02	7.5347e-01
104	PFM000001	3.6445	4.0108	3.8185	7.6822e-02	5.0009e-01
105	PAN000136	-115.0477	-109.0968	-112.2004	1.4484e+00	4.9280e+00
106	PFM000002	4.7438	5.1130	4.9348	8.9685e-02	2.0038e-01
107	EMPTY	-0.0049	0.0049	-0.0025	3.1567e-03	0.0000e+00
108	EMPTY	-9.8877	-9.0869	-9.4113	1.6877e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0005	2.0337e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0060	9.6655e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0529	8.7880e-02	8.1000e-01
114	VPW000003	-0.2479	0.3380	-0.0018	1.0297e-01	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0712	9.8569e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0165	9.8648e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0107	9.5357e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.2795	1.1302e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1953	1.1150e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.8729	1.1150e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.4230	2.0903e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.0263	2.6559e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1574	3.3656e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	3.2718e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.8155e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0368	9.8648e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0362	9.2034e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0266	7.8523e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0338	7.8918e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0219	9.7377e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0840	9.2034e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0690	9.2034e-02	4.1000e+00
135	IHT000008	-0.2442	0.1465	0.0254	1.0358e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0365	8.8321e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0488	8.8233e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0045	7.1136e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	0.0062	1.0763e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	9.2456e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0873	8.4997e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0391	8.8233e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0221	7.2866e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0721	1.8613e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0434	1.0470e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1382	1.0440e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0367	7.5283e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0709	7.2866e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.2780	-0.0424	1.0259e-01	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.1008	6.6498e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0874	8.8321e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0479	6.4113e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0339	6.2265e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0497	1.2251e-01	4.1000e+00

Test: May01_16

sum1

Date: Tue May 1 12:23:58 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0046	6.4113e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0793	9.7935e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0376	1.0625e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0152	7.3716e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	6.2265e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0284	8.8585e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0132	8.6541e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00

Velocity 1 = 5.0447 (ft/sec) (+/- 6.7730 %)
Velocity 2 = 5.7302 (ft/sec) (+/- 2.4736 %)
Pressure drop = -4.0567 (psi)
Tsats in = 239.2560 (deg F) Tsats out = 247.5662 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 48117.2656 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 221.5564 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.2754	75.0061	1.4256e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.1645	1.1428e-01	1.9000e+00
2	TFM000001	87.3602	88.1990	87.9183	2.0782e-01	1.9002e+00
3	TIN000001	87.3030	87.8287	87.5822	1.2970e-01	1.9002e+00
4	TRV000001	87.2932	88.1308	87.6925	1.7699e-01	1.9002e+00
5	TSR000001	87.0095	87.7423	87.3788	1.6568e-01	1.9002e+00
6	TAO020136	87.6827	88.6280	88.1650	2.3769e-01	1.9002e+00
7	TAO050136	87.7515	88.3799	88.0099	1.5712e-01	1.9002e+00
8	TAO070136	85.8826	86.4103	86.1132	1.4374e-01	1.9002e+00
9	TAO080136	87.5386	88.2707	87.7970	1.5110e-01	1.9002e+00
10	TAO090136	87.6175	88.4561	88.0089	1.9811e-01	1.9002e+00
11	TAO100136	87.5869	88.2163	87.8416	1.3372e-01	1.9002e+00
12	TAO105136	87.9751	88.9203	88.4102	2.1323e-01	1.9002e+00
13	TAO110136	85.6980	86.2221	85.9395	1.4987e-01	1.9002e+00
14	TAO115136	87.5362	88.5874	88.0235	2.4829e-01	1.9002e+00
15	TAO120136	87.5713	87.9913	87.6977	1.0494e-01	1.9002e+00
16	TAO125136	87.5547	88.2887	87.9418	1.7011e-01	1.9002e+00
17	TAO130136	87.2838	88.0121	87.5873	1.5180e-01	1.9002e+00
18	TAO120048	87.5031	88.2373	87.8006	1.5490e-01	1.9002e+00
19	TAO130048	87.2256	87.8532	87.4599	1.3111e-01	1.9002e+00
20	TAO120224	87.3241	88.1634	87.6560	1.7968e-01	1.9002e+00
21	TAO130224	87.3269	88.0579	87.6571	1.3900e-01	1.9002e+00
22	TAO120312	87.3551	87.9850	87.6058	1.5716e-01	1.9002e+00
23	TAO130312	87.1832	87.8122	87.4867	1.4069e-01	1.9002e+00
24	TRT020000	87.6571	88.6033	88.1099	1.7330e-01	1.9002e+00
25	TRT070000	87.6256	88.3631	87.9375	1.5648e-01	1.9002e+00
26	TRT100000	87.7718	88.6096	88.1544	1.8449e-01	1.9002e+00
27	TRT120000	87.6837	88.2084	87.9000	1.4424e-01	1.9002e+00
28	TRT125000	87.5434	88.3788	87.9181	1.6907e-01	1.9002e+00
29	TRT130000	87.3480	87.9771	87.7092	1.3544e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6431	2.2150e-01	1.9011e+00
31	TAF050136	87.8594	88.3837	88.1139	1.4663e-01	1.9002e+00
32	TAF070136	88.0668	89.0076	88.5125	1.7563e-01	1.9002e+00
33	TAF080136	87.6925	88.3205	87.9464	1.4921e-01	1.9002e+00
34	TAF090136	85.3112	86.3605	85.8103	2.9013e-01	1.9002e+00
35	TAF100136	87.4539	88.0847	87.8077	1.6006e-01	1.9002e+00
36	TAF105136	87.5780	88.2045	87.8701	1.9241e-01	1.9002e+00
37	TAF110136	87.3183	88.0518	87.6113	1.7632e-01	1.9002e+00
38	TAF115136	87.9587	88.6925	88.2390	1.6888e-01	1.9002e+00
39	TAF120136	87.7778	88.1978	87.9043	1.0050e-01	1.9002e+00
40	TAF125136	87.4385	88.4819	88.0283	2.8904e-01	1.9002e+00
41	TAF130136	87.3429	88.7041	87.9196	2.1075e-01	1.9002e+00
42	TAF120048	87.9237	88.7671	88.3217	2.3405e-01	1.9002e+00
43	TAF130048	87.4815	88.1110	87.8261	1.6158e-01	1.9002e+00
44	TAF120224	87.5547	88.4994	87.9725	2.1578e-01	1.9002e+00
45	TAF130224	87.1425	87.9847	87.4199	1.8208e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1288	2.0457e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1605	9.8423e-02	1.9010e+00
48	TAI130138	87.4505	88.7094	88.1079	3.3426e-01	1.9002e+00
49	TAI130226	87.0900	87.9272	87.5208	1.9657e-01	1.9002e+00
50	TAI130314	87.5978	88.7537	88.1276	2.9799e-01	1.9002e+00
51	TAI130042	87.0778	88.0228	87.5171	1.9012e-01	1.9002e+00
52	TRR130090	87.0672	87.9059	87.3924	1.8796e-01	1.9002e+00
53	TSI000001	81.5908	82.2232	81.8210	1.5898e-01	1.9001e+00
54	TSI000002	71.8801	72.9410	72.4752	2.4464e-01	1.9000e+00
55	TSO000001	67.9414	68.5831	68.3060	1.5573e-01	1.9000e+00
56	TSO000002	79.6778	80.4170	80.0376	2.1639e-01	1.9001e+00
57	TAF020136	86.9762	87.7137	87.3268	1.7782e-01	1.9002e+00
58	TAF120312	87.1602	88.4183	87.6888	2.8137e-01	1.9002e+00
59	TAF130312	86.8430	87.6816	87.2045	1.4835e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4847	2.1781e-03	0.0000e+00
61	EMPTY	0.4932	0.5029	0.4990	2.2241e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5126	6.9754e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5287	2.2287e-03	0.0000e+00
64	EMPTY	0.3320	0.3320	0.3320	0.0000e+00	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3521	1.4934e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3697	2.2287e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3859	9.7615e-04	0.0000e+00
68	EMPTY	0.3955	0.4053	0.4004	9.9670e-04	0.0000e+00
69	EMPTY	0.4150	0.4248	0.4198	1.2165e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4349	1.1827e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4592	9.7615e-04	0.0000e+00
72	EMPTY	0.4736	0.4883	0.4740	2.1920e-03	0.0000e+00
73	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5080	9.7615e-04	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5270	1.1827e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5419	6.9754e-04	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5614	6.9754e-04	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5841	2.3783e-03	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6066	2.0584e-03	0.0000e+00
80	PAN020136	-14.6321	-13.6403	-14.1821	2.7869e-01	8.7072e-01
81	PAN050136	-28.0449	-26.8242	-27.4564	2.9218e-01	1.6814e+00
82	PAN070136	-18.3234	-17.4842	-17.9342	2.2147e-01	8.7115e-01
83	PAN080136	-9.5044	-9.1229	-9.3331	1.0275e-01	8.7031e-01
84	PAN090136	-8.9629	-8.6577	-8.8664	8.2076e-02	8.7028e-01
85	PAN100136	-8.8573	-8.5521	-8.7436	7.1574e-02	8.7027e-01
86	PAN105136	-4.6237	-4.3948	-4.5241	6.4595e-02	8.7007e-01
87	PAN110136	-4.5254	-4.3729	-4.4569	4.9847e-02	8.7007e-01
88	PAN115136	-4.3597	-4.0546	-4.2679	8.6681e-02	8.7007e-01
89	PAN120136	-5.2605	-5.0316	-5.1157	7.5084e-02	8.7009e-01
90	PAN125136	-5.0756	-4.8468	-4.9542	5.5974e-02	8.7009e-01
91	PAN130136	-4.4535	-4.2246	-4.3352	5.4085e-02	8.7007e-01
92	PAN120048	-8.7487	-8.4435	-8.6350	8.5473e-02	8.7027e-01
93	PAN130048	-8.9160	-8.6871	-8.8210	6.8824e-02	8.7028e-01
94	PAN120224	-8.9718	-8.6666	-8.7958	6.6446e-02	8.7028e-01
95	PAN130224	-8.9321	-8.5506	-8.7795	6.9647e-02	8.7028e-01
96	PAN120312	-9.4485	-9.0671	-9.2944	7.8626e-02	8.7031e-01
97	PAN130312	-8.7031	-8.3980	-8.5692	7.2262e-02	8.7026e-01
98	PAB000136	24.5057	24.8261	24.6739	6.4999e-02	5.8327e-01
99	PAB100136	27.6484	27.7858	27.7288	3.3077e-02	5.8413e-01
100	PAB125136	28.4768	28.6141	28.5422	3.8527e-02	5.8437e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.4062	24.7724	24.5681	1.1790e-01	7.5251e-01
102	PRV000001	26.5800	26.7021	26.6821	4.5586e-02	7.5296e-01
103	PSR000001	28.8547	28.9768	28.9270	6.0619e-02	7.5348e-01
104	PFM000001	3.6445	4.0108	3.8090	8.5598e-02	5.0009e-01
105	PAN000136	-114.1322	-110.0123	-112.3104	1.0755e+00	4.9280e+00
106	PFM000002	4.7103	5.1298	4.9363	8.2851e-02	2.0038e-01
107	EMPTY	-0.0049	0.0049	-0.0016	3.2124e-03	0.0000e+00
108	EMPTY	-9.9219	-9.0820	-9.4286	1.7132e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0009	1.9103e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0147	9.0949e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0451	7.9736e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0048	9.3759e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0851	1.0594e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0432	9.2189e-02	8.1000e-01
117	VPW000006	-0.2216	0.3643	0.0255	1.1117e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1017	1.0590e+00	8.1000e+00
119	IPW000002	-0.9755	0.9758	-0.0596	9.8390e-01	8.1000e+00
120	IPW000003	-4.4999	1.3501	-1.3560	1.1128e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.3733	1.6787e-01	2.0000e+00
122	IPW000005	-0.0751	0.4131	0.1242	2.4245e-01	2.0000e+00
123	IPW000006	-1.1926	0.2723	-0.1761	3.2811e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0205	3.7266e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.8155e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.3057e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0143	3.7833e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0563	8.9148e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0215	8.4860e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0507	8.3122e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0258	9.7324e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0077	1.0204e-01	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1066	9.7490e-02	4.1000e+00
134	IHT000007	-0.2592	0.3268	0.0478	1.1276e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0508	1.0640e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0519	8.3705e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0528	8.4477e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0071	6.8582e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0165	9.7490e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	8.8783e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0678	8.4477e-02	4.1000e+00
142	IHT000015	-0.3906	0.1953	0.0120	1.0092e-01	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0218	4.7310e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0646	1.5133e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0406	1.0378e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1318	1.0315e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0003	9.9303e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0587	7.5986e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0907	9.6150e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0330	9.6990e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0845	9.2189e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0800	8.2141e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0594	7.3601e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0380	8.8783e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0462	9.9629e-02	4.1000e+00

Test: May01_16

sum2

Date: Tue May 1 12:23:58 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0171	8.6187e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0776	9.8153e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0316	9.8483e-02	4.1000e+00
159	IHT000032	-0.2066	0.3793	-0.0153	1.0156e-01	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	8.9148e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0534	9.6990e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0382	9.6150e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0120	6.1868e-02	4.1000e+00

Test: May01_16 dif Date: Tue May 1 12:23:58 1990 Page: 1

Velocity 1 = 0.006200 (ft/sec)
Velocity 2 = 0.000800 (ft/sec)
Pressure Drop = 0.004000 (psi)
Tsats in = 0.074600 (deg F) Tsats out = 0.024796 (deg F)
Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0480	0.0639
1	TRF000002	0.0019	0.0025
2	TFM000001	0.0183	0.0208
3	TIN000001	0.0218	0.0249
4	TRV000001	0.0172	0.0196
5	TSR000001	0.0388	0.0444
6	TAO020136	0.0264	0.0300
7	TAO050136	0.0118	0.0134
8	TAO070136	0.0122	0.0142
9	TAO080136	0.0076	0.0087
10	TAO090136	0.0091	0.0103
11	TAO100136	0.0202	0.0230
12	TAO105136	0.0338	0.0382
13	TAO110136	0.0128	0.0149
14	TAO115136	0.0029	0.0033
15	TAO120136	0.0145	0.0165
16	TAO125136	0.0343	0.0390
17	TAO130136	0.0151	0.0172
18	TAO120048	0.0194	0.0221
19	TAO130048	0.0018	0.0021
20	TAO120224	0.0228	0.0260
21	TAO130224	0.0103	0.0117
22	TAO120312	0.0371	0.0423
23	TAO130312	0.0205	0.0234
24	TRT020000	0.0288	0.0327
25	TRT070000	0.0359	0.0408
26	TRT100000	0.0260	0.0295
27	TRT120000	0.0460	0.0523
28	TRT125000	0.0073	0.0083
29	TRT130000	0.0112	0.0128
30	EMPTY	0.0237	0.0598
31	TAF050136	0.0160	0.0182
32	TAF070136	0.0080	0.0090
33	TAF080136	0.0035	0.0040
34	TAF090136	0.0112	0.0131
35	TAF100136	0.0308	0.0351
36	TAF105136	0.0402	0.0457
37	TAF110136	0.0403	0.0460
38	TAF115136	0.0112	0.0127
39	TAF120136	0.0186	0.0212
40	TAF125136	0.0592	0.0672
41	TAF130136	0.0135	0.0154
42	TAF120048	0.0503	0.0570
43	TAF130048	0.0351	0.0399
44	TAF120224	0.0293	0.0333
45	TAF130224	0.0267	0.0305

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3 of 11

#	Name	Abs Diff	%Diff
46	EMPTY	0.0348	0.0913
47	EMPTY	0.0186	0.0475
48	TAI130138	0.0131	0.0149
49	TAI130226	0.0398	0.0455
50	TAI130314	0.0525	0.0595
51	TAI130042	0.0543	0.0620
52	TRR130090	0.0124	0.0142
53	TSI000001	0.0460	0.0562
54	TSI000002	0.0222	0.0306
55	TSO000001	0.1169	0.1708
56	TSO000002	0.0197	0.0246
57	TAF020136	0.0070	0.0080
58	TAF120312	0.0105	0.0120
59	TAF130312	0.0096	0.0110
60	EMPTY	0.0005	0.1033
61	EMPTY	0.0002	0.0401
62	EMPTY	0.0002	0.0390
63	EMPTY	0.0002	0.0378
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0001	0.0284
66	EMPTY	0.0007	0.1890
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0499
69	EMPTY	0.0001	0.0238
70	EMPTY	0.0001	0.0230
71	EMPTY	0.0001	0.0218
72	EMPTY	0.0005	0.1056
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0001	0.0197
75	EMPTY	0.0002	0.0379
76	EMPTY	0.0001	0.0185
77	EMPTY	0.0001	0.0178
78	EMPTY	0.0006	0.1028
79	EMPTY	0.0001	0.0165
80	PAN020136	0.0151	0.1064
81	PAN050136	0.0401	0.1463
82	PAN070136	0.0258	0.1441
83	PAN080136	0.0080	0.0856
84	PAN090136	0.0073	0.0824
85	PAN100136	0.0023	0.0263
86	PAN105136	0.0157	0.3458
87	PAN110136	0.0151	0.3377
88	PAN115136	0.0013	0.0305
89	PAN120136	0.0013	0.0254
90	PAN125136	0.0024	0.0484
91	PAN130136	0.0008	0.0185
92	PAN120048	0.0007	0.0081
93	PAN130048	0.0057	0.0647
94	PAN120224	0.0087	0.0990
95	PAN130224	0.0076	0.0865
96	PAN120312	0.0107	0.1150
97	PAN130312	0.0202	0.2363
98	PAB000136	0.0327	0.1327
99	PAB100136	0.0209	0.0754
100	PAB125136	0.0123	0.0431

Test: May01_16

dif

Date: Tue May 1 12:23:58 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0105	0.0428
102	PRV000001	0.0175	0.0655
103	PSR000001	0.0332	0.1149
104	PFM000001	0.0095	0.2488
105	PAN000136	0.1100	0.0980
106	PFM000002	0.0015	0.0304
107	EMPTY	0.0009	36.0000
108	EMPTY	0.0173	0.1838
109	EMPTY	0.0004	80.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0207	345.0000
113	VPW000002	0.0078	14.7448
114	VPW000003	0.0030	166.6667
115	VPW000004	0.0139	19.5225
116	VPW000005	0.0267	161.8182
117	VPW000006	0.0362	338.3177
118	IPW000001	0.1778	13.8961
119	IPW000002	0.2549	130.5172
120	IPW000003	0.4831	55.3442
121	IPW000004	0.0497	11.7494
122	IPW000005	0.1505	572.2433
123	IPW000006	0.0187	11.8806
124	EMPTY	0.0000	0.0000
125	EMPTY	0.0004	2.8369
126	EMPTY	0.0007	4.1916
127	EMPTY	0.0005	3.3784
128	IHT000001	0.0195	52.9891
129	IHT000002	0.0147	40.6077
130	IHT000003	0.0241	90.6015
131	IHT000004	0.0080	23.6686
132	IHT000005	0.0142	64.8402
133	IHT000006	0.0226	26.9048
134	IHT000007	0.0212	30.7246
135	IHT000008	0.0254	100.0000
136	IHT000009	0.0154	42.1918
137	IHT000010	0.0040	8.1967
138	IHT000011	0.0116	257.7778
139	IHT000012	0.0227	366.1290
140	IHT000013	0.0041	5.4667
141	IHT000014	0.0195	22.3368
142	IHT000015	0.0271	69.3095
143	IHT000016	0.0003	1.3575
144	IHT000017	0.0075	10.4022
145	IHT000018	0.0028	6.4516
146	IHT000019	0.0064	4.6310
147	IHT000020	0.0364	99.1826
148	IHT000021	0.0122	17.2073
149	IHT000022	0.0063	6.4948
150	IHT000023	0.0094	22.1698
151	IHT000024	0.0163	16.1706
152	IHT000025	0.0074	8.4668
153	IHT000026	0.0115	24.0084
154	IHT000027	0.0041	12.0944
155	IHT000028	0.0035	7.0423

Test: May01_16 dif Date: Tue May 1 12:23:58 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0125	271.7391
157	IHT000030	0.0017	2.1438
158	IHT000031	0.0060	15.9574
159	IHT000032	0.0001	0.6579
160	IHT000033	0.0039	100.0000
161	IHT000034	0.0250	88.0282
162	IHT000035	0.0250	189.3939
163	IHT000036	0.0075	38.4615

Test: May01_17

sum1

Date: Tue May 1 12:26:23 1990

Page: 1

Velocity 1 = 7.0456 (ft/sec) (+/- 3.7258 %)

Velocity 2 = 7.5856 (ft/sec) (+/- 1.9647 %)

Pressure drop = -2.9634 (psi)

Tsats in = 241.9549 (deg F) Tsats out = 247.8922 (deg F)

Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4298.8921 %)

Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 7592.4111 %)

D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)

L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.2754	75.0456	1.5991e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.2007	1.1310e-01	1.9000e+00
2	TFM000001	87.6744	88.5128	88.0224	1.8385e-01	1.9002e+00
3	TIN000001	87.4084	87.9340	87.6985	1.4643e-01	1.9002e+00
4	TRV000001	87.5020	88.1301	87.8831	1.6464e-01	1.9002e+00
5	TSR000001	87.2182	87.8457	87.5909	1.3244e-01	1.9002e+00
6	TAO020136	87.6827	88.6280	88.2583	1.9364e-01	1.9002e+00
7	TAO050136	87.7515	88.4837	88.1488	1.5955e-01	1.9002e+00
8	TAO070136	85.8832	86.6205	86.2666	1.8648e-01	1.9002e+00
9	TAO080136	87.7471	88.2707	87.9651	1.3339e-01	1.9002e+00
10	TAO090136	87.8269	88.4560	88.1707	1.5119e-01	1.9002e+00
11	TAO100136	87.6922	88.3204	87.9853	1.2883e-01	1.9002e+00
12	TAO105136	88.2899	88.9203	88.6430	1.8582e-01	1.9002e+00
13	TAO110136	85.6980	86.4303	86.1121	1.5238e-01	1.9002e+00
14	TAO115136	87.7467	88.6931	88.1589	2.4583e-01	1.9002e+00
15	TAO120136	87.5713	88.0944	87.8515	1.3087e-01	1.9002e+00
16	TAO125136	87.7641	88.2887	88.0870	1.5098e-01	1.9002e+00
17	TAO130136	87.4903	88.0121	87.7904	1.2737e-01	1.9002e+00
18	TAO120048	87.7126	88.2373	87.9938	1.4443e-01	1.9002e+00
19	TAO130048	87.3291	87.8532	87.6559	1.2456e-01	1.9002e+00
20	TAO120224	87.5338	88.2682	87.8612	1.5081e-01	1.9002e+00
21	TAO130224	87.5348	88.1605	87.8774	1.3199e-01	1.9002e+00
22	TAO120312	87.3551	88.0901	87.8044	1.2734e-01	1.9002e+00
23	TAO130312	87.3924	87.9161	87.6608	1.1833e-01	1.9002e+00
24	TRT020000	87.7623	88.7084	88.2459	1.6997e-01	1.9002e+00
25	TRT070000	87.6256	88.3631	88.1274	1.3724e-01	1.9002e+00
26	TRT100000	87.9810	88.7143	88.3455	2.1898e-01	1.9002e+00
27	TRT120000	87.8932	88.4178	88.1073	1.5558e-01	1.9002e+00
28	TRT125000	87.6470	88.4818	88.1025	1.7735e-01	1.9002e+00
29	TRT130000	87.5571	88.1851	87.8631	1.5094e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.4818e-01	1.9011e+00
31	TAF050136	87.8594	88.5927	88.2449	1.7372e-01	1.9002e+00
32	TAF070136	88.2754	89.0076	88.6519	1.8386e-01	1.9002e+00
33	TAF080136	87.6925	88.4238	88.1102	1.6871e-01	1.9002e+00
34	TAF090136	85.3112	86.4659	85.9326	2.7297e-01	1.9002e+00
35	TAF100136	87.6640	88.2942	87.9498	1.6311e-01	1.9002e+00
36	TAF105136	87.6834	88.6197	88.0705	1.9840e-01	1.9002e+00
37	TAF110136	87.5274	88.0518	87.7958	1.5289e-01	1.9002e+00
38	TAF115136	87.9587	88.6925	88.4114	1.8139e-01	1.9002e+00
39	TAF120136	87.7778	88.3020	88.0378	1.4698e-01	1.9002e+00
40	TAF125136	87.7515	88.7947	88.2729	2.8072e-01	1.9002e+00
41	TAF130136	87.7617	88.5994	88.0672	1.5819e-01	1.9002e+00
42	TAF120048	88.0284	88.8723	88.3748	2.1307e-01	1.9002e+00
43	TAF130048	87.6910	88.4252	88.0015	1.5421e-01	1.9002e+00
44	TAF120224	87.6600	88.4994	88.1005	1.9657e-01	1.9002e+00
45	TAF130224	87.1425	87.8811	87.5260	1.7403e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	1.8931e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130138	87.8701	88.9194	88.3360	3.0352e-01	1.9002e+00
49	TAI130226	87.2985	88.0309	87.6211	1.7159e-01	1.9002e+00
50	TAI130314	87.7031	88.9637	88.2788	3.0338e-01	1.9002e+00
51	TAI130042	87.3925	88.0228	87.6910	1.6342e-01	1.9002e+00
52	TRR130090	87.0677	88.0099	87.4990	2.0803e-01	1.9002e+00
53	TSI000001	81.5908	82.1180	81.8060	1.4432e-01	1.9001e+00
54	TSI000002	72.3039	73.0468	72.7410	2.2627e-01	1.9000e+00
55	TSO000001	68.3698	69.1182	68.7675	1.7826e-01	1.9000e+00
56	TSO000002	80.0997	80.8386	80.5514	1.7060e-01	1.9001e+00
57	TAF020136	87.0816	87.7147	87.4441	1.6646e-01	1.9002e+00
58	TAF120312	87.3698	88.4184	87.8396	2.2226e-01	1.9002e+00
59	TAF130312	87.0523	87.6807	87.3585	1.6246e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4880	1.1714e-03	0.0000e+00
61	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5166	1.9730e-03	0.0000e+00
63	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3339	2.3941e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3554	2.0432e-03	0.0000e+00
66	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3901	1.4797e-03	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4037	2.3008e-03	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4201	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4378	2.3365e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4604	2.2603e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4743	1.7115e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5109	2.3675e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5421	6.9053e-04	0.0000e+00
77	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6102	9.6655e-04	0.0000e+00
80	PAN020136	-11.1226	-9.5204	-10.3963	3.9395e-01	8.7039e-01
81	PAN050136	-21.6362	-19.5000	-20.4308	5.6191e-01	1.6808e+00
82	PAN070136	-13.6695	-12.2199	-12.9615	3.3947e-01	8.7060e-01
83	PAN080136	-7.2918	-6.7578	-7.0767	1.4016e-01	8.7018e-01
84	PAN090136	-6.9030	-6.4452	-6.6802	9.9702e-02	8.7016e-01
85	PAN100136	-6.4922	-6.0344	-6.2480	9.2482e-02	8.7014e-01
86	PAN105136	-3.4793	-3.1741	-3.3099	6.9430e-02	8.7004e-01
87	PAN110136	-3.3047	-2.9996	-3.1766	6.6189e-02	8.7004e-01
88	PAN115136	-3.0627	-2.7576	-2.9086	7.1454e-02	8.7003e-01
89	PAN120136	-4.1924	-3.8872	-3.9925	7.8428e-02	8.7006e-01
90	PAN125136	-3.7024	-3.3972	-3.5833	5.8001e-02	8.7005e-01
91	PAN130136	-3.3091	-3.0039	-3.1107	8.5820e-02	8.7003e-01
92	PAN120048	-6.5362	-6.0784	-6.3821	1.1060e-01	8.7015e-01
93	PAN130048	-6.5509	-6.1694	-6.3739	1.0390e-01	8.7015e-01
94	PAN120224	-6.6066	-6.1489	-6.4052	1.0312e-01	8.7015e-01
95	PAN130224	-6.4144	-6.0329	-6.2099	1.1268e-01	8.7014e-01
96	PAN120312	-7.1597	-6.7020	-6.9018	1.0667e-01	8.7017e-01
97	PAN130312	-6.4906	-6.0329	-6.2236	9.6567e-02	8.7014e-01
98	PAB000136	25.6959	26.1079	25.8790	9.6996e-02	5.8360e-01
99	PAB100136	28.0147	28.2435	28.1007	5.0350e-02	5.8424e-01
100	PAB125136	28.6141	28.7514	28.7038	4.2340e-02	5.8442e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	25.3828	26.1152	25.6806	1.7292e-01	7.5274e-01
102	PRV0000001	26.5800	26.7021	26.6239	5.9189e-02	7.5295e-01
103	PSR0000001	28.8547	28.9768	28.8816	5.1081e-02	7.5347e-01
104	PFM0000001	7.3067	7.8560	7.5081	1.3592e-01	5.0035e-01
105	PAN000136	-85.7508	-77.5111	-82.0429	1.9272e+00	4.9243e+00
106	PFM0000002	8.3850	9.1401	8.7196	1.5170e-01	2.0118e-01
107	EMPTY	-0.0049	0.0049	0.0015	3.1583e-03	0.0000e+00
108	EMPTY	-9.7656	-9.0723	-9.3663	1.4680e-01	0.0000e+00
109	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.0451	0.1502	0.0135	9.0412e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0021	9.0756e-02	8.1000e-01
114	VPW0000003	-0.2479	0.1427	-0.0214	9.9512e-02	8.1000e-01
115	VPW0000004	-0.3681	0.2178	-0.0673	1.2608e-01	8.1000e-01
116	VPW0000005	-0.1202	0.2704	0.0048	1.1679e-01	8.1000e-01
117	VPW0000006	-0.2216	0.3643	-0.0146	1.2104e-01	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-0.2642	1.1493e+00	8.1000e+00
119	IPW0000002	-2.9267	0.9758	-0.5462	1.0644e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.7559	1.1713e+00	8.1000e+00
121	IPW0000004	-0.4132	0.5634	-0.1202	2.7902e-01	2.0000e+00
122	IPW0000005	-0.0751	0.4131	0.1397	2.4481e-01	2.0000e+00
123	IPW0000006	-1.1926	0.2723	-0.3039	2.5515e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.1828e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.5266e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.0003e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0368	9.0412e-02	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0167	8.1729e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0305	9.1779e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0182	1.0320e-01	4.1000e+00
132	IHT0000005	-0.0601	0.3305	-0.0015	9.8648e-02	4.1000e+00
133	IHT0000006	-0.3418	0.0488	-0.0996	1.0106e-01	4.1000e+00
134	IHT0000007	-0.0638	0.3268	0.0455	1.1272e-01	4.1000e+00
135	IHT0000008	-0.0488	0.3418	0.0254	1.0358e-01	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0365	8.8321e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0332	9.5357e-02	4.1000e+00
138	IHT0000011	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0251	9.9512e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0789	7.8918e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0795	6.6498e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0351	9.4125e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0104	7.5283e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0565	1.6502e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0200	8.2393e-02	4.1000e+00
146	IHT0000019	-0.2554	-0.0601	-0.1187	9.0412e-02	4.1000e+00
147	IHT0000020	-0.2554	0.1352	-0.0289	9.1354e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0553	6.8459e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.1244	1.0559e-01	4.1000e+00
150	IHT0000023	-0.1127	0.2780	-0.0619	9.5112e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0813	9.4125e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.1109	1.0297e-01	4.1000e+00
153	IHT0000026	-0.0714	0.3193	-0.0440	7.9017e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0418	7.2866e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0419	1.0320e-01	4.1000e+00

Test: May01_17		sum1	Date: Tue May 1 12:26:23 1990		Page: 4	
#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0164	7.5798e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0754	9.8332e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0376	1.0625e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	7.8918e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0117	7.2866e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0518	9.6655e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	9.0412e-02	4.1000e+00

Velocity 1 = 7.0579 (ft/sec) (+/- 3.7154 %)
Velocity 2 = 7.5974 (ft/sec) (+/- 1.9630 %)
Pressure drop = -2.9620 (psi)
Tsat in = 242.0861 (deg F) Tsat out = 247.9691 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10836.0615 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2139.1538 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	75.0669	1.7092e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.1904	1.3001e-01	1.9000e+00
2	TFM000001	87.6744	88.5128	88.0253	2.0126e-01	1.9002e+00
3	TIN000001	87.4084	88.0387	87.7109	1.4954e-01	1.9002e+00
4	TRV000001	87.3980	88.2348	87.7524	1.8351e-01	1.9002e+00
5	TSR000001	87.3216	87.9504	87.5836	1.3730e-01	1.9002e+00
6	TAO020136	87.8928	88.6280	88.2550	2.0569e-01	1.9002e+00
7	TAO050136	87.8548	88.4837	88.1464	1.4856e-01	1.9002e+00
8	TAO070136	85.8832	86.6205	86.2981	2.0325e-01	1.9002e+00
9	TAO080136	87.6439	88.2707	87.9802	1.7128e-01	1.9002e+00
10	TAO090136	87.8269	88.5606	88.1885	1.8655e-01	1.9002e+00
11	TAO100136	87.6911	88.3210	87.9871	1.5546e-01	1.9002e+00
12	TAO105136	88.0804	88.9204	88.5346	1.8976e-01	1.9002e+00
13	TAO110136	85.6980	86.4303	86.0802	1.6638e-01	1.9002e+00
14	TAO115136	87.6414	88.6931	88.1566	2.3628e-01	1.9002e+00
15	TAO120136	87.4660	88.1991	87.8297	1.7870e-01	1.9002e+00
16	TAO125136	87.6588	88.4979	88.0830	1.7516e-01	1.9002e+00
17	TAO130136	87.3850	88.1168	87.7735	1.7426e-01	1.9002e+00
18	TAO120048	87.7126	88.2373	87.9675	1.6163e-01	1.9002e+00
19	TAO130048	87.2238	88.0620	87.6434	1.7246e-01	1.9002e+00
20	TAO120224	87.5338	88.1626	87.8486	1.5884e-01	1.9002e+00
21	TAO130224	87.6374	88.2657	87.8654	1.4229e-01	1.9002e+00
22	TAO120312	87.4597	88.2998	87.8029	1.7380e-01	1.9002e+00
23	TAO130312	87.3930	87.9169	87.6791	1.1692e-01	1.9002e+00
24	TRT020000	87.8675	88.6037	88.2944	2.0740e-01	1.9002e+00
25	TRT070000	87.7315	88.5742	88.1139	1.9187e-01	1.9002e+00
26	TRT100000	87.7718	88.8189	88.3296	2.0096e-01	1.9002e+00
27	TRT120000	87.6837	88.5224	88.0967	1.8837e-01	1.9002e+00
28	TRT125000	87.7523	88.5870	88.1310	1.8805e-01	1.9002e+00
29	TRT130000	87.5571	88.1861	87.8886	1.4885e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6009	2.5011e-01	1.9011e+00
31	TAF050136	87.8594	88.5927	88.2336	1.6148e-01	1.9002e+00
32	TAF070136	88.2754	89.1122	88.6660	2.1313e-01	1.9002e+00
33	TAF080136	87.7953	88.5284	88.0954	1.6404e-01	1.9002e+00
34	TAF090136	85.5210	86.6749	85.9261	2.8652e-01	1.9002e+00
35	TAF100136	87.3485	88.2941	87.9321	1.8946e-01	1.9002e+00
36	TAF105136	87.5780	88.5170	88.0106	2.5975e-01	1.9002e+00
37	TAF110136	87.4236	88.1565	87.7694	1.7536e-01	1.9002e+00
38	TAF115136	87.9587	88.9017	88.4570	2.1334e-01	1.9002e+00
39	TAF120136	87.6726	88.3020	87.9771	1.4715e-01	1.9002e+00
40	TAF125136	87.6468	88.7947	88.2199	2.7188e-01	1.9002e+00
41	TAF130136	87.6564	88.3902	88.0735	1.8345e-01	1.9002e+00
42	TAF120048	88.0289	88.9769	88.4465	2.0752e-01	1.9002e+00
43	TAF130048	87.4815	88.3199	88.0101	1.7776e-01	1.9002e+00
44	TAF120224	87.7646	88.6041	88.1053	2.0718e-01	1.9002e+00
45	TAF130224	87.2473	87.9847	87.5662	1.8678e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0959	2.2014e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1699	8.4440e-02	1.9010e+00
48	TAI130138	87.5558	88.8144	88.2450	2.7668e-01	1.9002e+00
49	TAI130226	87.1938	87.9272	87.5766	1.8706e-01	1.9002e+00
50	TAI130314	87.8081	88.7537	88.3335	2.6875e-01	1.9002e+00
51	TAI130042	87.2878	88.0228	87.6757	1.9314e-01	1.9002e+00
52	TRR130090	86.9624	87.9059	87.4908	2.0186e-01	1.9002e+00
53	TSI000001	81.5908	82.1180	81.7954	1.3511e-01	1.9001e+00
54	TSI000002	71.9854	73.2585	72.7478	2.7775e-01	1.9000e+00
55	TSO000001	68.2626	69.1182	68.7778	2.0316e-01	1.9000e+00
56	TSO000002	80.2057	80.9440	80.5844	1.9131e-01	1.9001e+00
57	TAF020136	86.9762	87.8194	87.4516	2.0967e-01	1.9002e+00
58	TAF120312	87.2645	88.3136	87.8300	2.6712e-01	1.9002e+00
59	TAF130312	87.0523	87.8907	87.3455	1.7384e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4879	1.3508e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5161	2.2737e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5320	9.7615e-04	0.0000e+00
64	EMPTY	0.3271	0.3369	0.3341	2.6370e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3561	1.1827e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3710	6.9754e-04	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3905	6.9754e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4048	1.4934e-03	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4212	2.1781e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4391	1.3508e-03	0.0000e+00
71	EMPTY	0.4541	0.4639	0.4612	2.6485e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4750	2.2287e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4941	1.9103e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5122	1.4934e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5274	6.9754e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5423	1.1827e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5617	9.7615e-04	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5858	6.9754e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6103	6.9754e-04	0.0000e+00
80	PAN020136	-10.9700	-9.2915	-10.2693	3.7977e-01	8.7038e-01
81	PAN050136	-21.7888	-19.3474	-20.4654	5.5577e-01	1.6808e+00
82	PAN070136	-13.8984	-12.0673	-12.9720	4.0069e-01	8.7060e-01
83	PAN080136	-7.9022	-6.8341	-7.4413	2.1801e-01	8.7020e-01
84	PAN090136	-6.5978	-5.9874	-6.3144	1.5651e-01	8.7014e-01
85	PAN100136	-6.4922	-6.1107	-6.2493	7.7357e-02	8.7014e-01
86	PAN105136	-3.4793	-3.1741	-3.3112	7.3012e-02	8.7004e-01
87	PAN110136	-3.2284	-2.9996	-3.1677	5.8228e-02	8.7004e-01
88	PAN115136	-3.0627	-2.7576	-2.9008	6.7224e-02	8.7003e-01
89	PAN120136	-4.1924	-3.8109	-4.0086	9.5898e-02	8.7006e-01
90	PAN125136	-3.7024	-3.4735	-3.6058	6.9255e-02	8.7005e-01
91	PAN130136	-3.3091	-3.0039	-3.1083	7.8940e-02	8.7003e-01
92	PAN120048	-6.6888	-6.0784	-6.3914	1.1257e-01	8.7015e-01
93	PAN130048	-6.6272	-6.1694	-6.3563	9.0890e-02	8.7015e-01
94	PAN120224	-6.6066	-6.1489	-6.4089	1.1221e-01	8.7015e-01
95	PAN130224	-6.4144	-5.9566	-6.2151	9.4494e-02	8.7014e-01
96	PAN120312	-7.1597	-6.6257	-6.8763	1.1122e-01	8.7017e-01
97	PAN130312	-6.4906	-6.0329	-6.2555	9.7052e-02	8.7014e-01
98	PAB000136	25.7417	26.1079	25.9388	8.5744e-02	5.8361e-01
99	PAB100136	28.0604	28.1978	28.1361	4.4373e-02	5.8425e-01
100	PAB125136	28.6599	28.8430	28.7421	4.4793e-02	5.8443e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.3828	26.2373	25.7415	2.0458e-01	7.5276e-01
102	PRV000001	26.5800	26.7021	26.5999	4.5586e-02	7.5294e-01
103	PSR000001	28.8547	28.9768	28.9594	4.3158e-02	7.5349e-01
104	PFM000001	7.3982	7.6729	7.5346	9.3669e-02	5.0035e-01
105	PAN000136	-87.5819	-77.9688	-82.0046	2.0571e+00	4.9243e+00
106	PFM000002	8.4689	8.9891	8.7470	1.4430e-01	2.0119e-01
107	EMPTY	-0.0049	0.0049	0.0008	3.7752e-03	0.0000e+00
108	EMPTY	-9.6875	-8.9551	-9.3205	1.4860e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0187	9.2540e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0531	6.8582e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0088	9.1482e-02	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0612	1.1276e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0353	1.0533e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0024	1.3000e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.3447	1.1556e+00	8.1000e+00
119	IPW000002	-2.9267	0.9758	-0.1790	1.1895e+00	8.1000e+00
120	IPW000003	-2.5499	-0.5999	-1.3162	9.4980e-01	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2637	2.2737e-01	2.0000e+00
122	IPW000005	-0.0751	0.4131	0.1341	2.4412e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.3256	3.0339e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0206	3.4906e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	3.0803e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0157	2.8655e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.1260e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0404	1.0424e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0255	1.0378e-01	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0427	1.0268e-01	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0338	1.1276e-01	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0117	9.5132e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0628	1.1276e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0518	1.0486e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0508	1.0640e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0280	9.4962e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0608	6.1868e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0129	7.9736e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0165	9.7490e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0709	5.5804e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0798	8.7680e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0279	6.9053e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0218	6.1868e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0885	1.5784e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0525	1.0076e-01	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1318	9.5132e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0282	8.3122e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0587	6.4688e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1266	9.7656e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0449	9.3931e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0925	7.5986e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.1000	9.7490e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0395	7.2937e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0340	6.2908e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0383	1.0092e-01	4.1000e+00

Test: May01_17

sum2

Date: Tue May 1 12:26:23 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0131	7.2937e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0656	1.1362e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0196	1.1219e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0153	8.4477e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0199	7.1817e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0455	1.0315e-01	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0342	1.0315e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0239	8.5810e-02	4.1000e+00

Velocity 1 = 0.012300 (ft/sec)
 Velocity 2 = 0.011800 (ft/sec)
 Pressure Drop = 0.001400 (psi)
 Tsat in = 0.131210 (deg F) Tsat out = 0.076904 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0213	0.0284
1	TRF000002	0.0103	0.0137
2	TFM000001	0.0029	0.0033
3	TIN000001	0.0124	0.0141
4	TRV000001	0.1307	0.1487
5	TSR000001	0.0073	0.0083
6	TAO020136	0.0033	0.0037
7	TAO050136	0.0024	0.0027
8	TAO070136	0.0315	0.0365
9	TAO080136	0.0151	0.0172
10	TAO090136	0.0178	0.0202
11	TAO100136	0.0018	0.0020
12	TAO105136	0.1084	0.1223
13	TAO110136	0.0319	0.0370
14	TAO115136	0.0023	0.0026
15	TAO120136	0.0218	0.0248
16	TAO125136	0.0040	0.0045
17	TAO130136	0.0169	0.0192
18	TAO120048	0.0263	0.0299
19	TAO130048	0.0125	0.0143
20	TAO120224	0.0126	0.0143
21	TAO130224	0.0120	0.0137
22	TAO120312	0.0015	0.0017
23	TAO130312	0.0183	0.0209
24	TRT020000	0.0485	0.0550
25	TRT070000	0.0135	0.0153
26	TRT100000	0.0159	0.0180
27	TRT120000	0.0106	0.0120
28	TRT125000	0.0285	0.0323
29	TRT130000	0.0255	0.0290
30	EMPTY	0.0323	0.0815
31	TAF050136	0.0113	0.0128
32	TAF070136	0.0141	0.0159
33	TAF080136	0.0148	0.0168
34	TAF090136	0.0065	0.0076
35	TAF100136	0.0177	0.0201
36	TAF105136	0.0599	0.0680
37	TAF110136	0.0264	0.0301
38	TAF115136	0.0456	0.0516
39	TAF120136	0.0607	0.0690
40	TAF125136	0.0530	0.0600
41	TAF130136	0.0063	0.0072
42	TAF120048	0.0717	0.0811
43	TAF130048	0.0086	0.0098
44	TAF120224	0.0048	0.0054
45	TAF130224	0.0402	0.0459

#	Name	Abs Diff	%Diff
46	EMPTY	0.0203	0.0533
47	EMPTY	0.0592	0.1509
48	TAI130138	0.0910	0.1030
49	TAI130226	0.0445	0.0508
50	TAI130314	0.0547	0.0620
51	TAI130042	0.0153	0.0175
52	TRR130090	0.0082	0.0094
53	TSI000001	0.0106	0.0130
54	TSI000002	0.0068	0.0094
55	TSO000001	0.0103	0.0150
56	TSO000002	0.0330	0.0410
57	TAF020136	0.0075	0.0086
58	TAF120312	0.0096	0.0109
59	TAF130312	0.0130	0.0149
60	EMPTY	0.0001	0.0205
61	EMPTY	0.0001	0.0199
62	EMPTY	0.0005	0.0968
63	EMPTY	0.0002	0.0376
64	EMPTY	0.0002	0.0599
65	EMPTY	0.0007	0.1970
66	EMPTY	0.0001	0.0270
67	EMPTY	0.0004	0.1025
68	EMPTY	0.0011	0.2725
69	EMPTY	0.0011	0.2618
70	EMPTY	0.0013	0.2969
71	EMPTY	0.0008	0.1738
72	EMPTY	0.0007	0.1476
73	EMPTY	0.0007	0.1419
74	EMPTY	0.0013	0.2544
75	EMPTY	0.0001	0.0189
76	EMPTY	0.0002	0.0369
77	EMPTY	0.0002	0.0356
78	EMPTY	0.0001	0.0171
79	EMPTY	0.0001	0.0164
80	PAN020136	0.1270	1.2216
81	PAN050136	0.0346	0.1694
82	PAN070136	0.0105	0.0810
83	PAN080136	0.3646	5.1521
84	PAN090136	0.3658	5.4759
85	PAN100136	0.0013	0.0208
86	PAN105136	0.0013	0.0393
87	PAN110136	0.0089	0.2802
88	PAN115136	0.0078	0.2682
89	PAN120136	0.0161	0.4033
90	PAN125136	0.0225	0.6279
91	PAN130136	0.0024	0.0772
92	PAN120048	0.0093	0.1457
93	PAN130048	0.0176	0.2761
94	PAN120224	0.0037	0.0578
95	PAN130224	0.0052	0.0837
96	PAN120312	0.0255	0.3695
97	PAN130312	0.0319	0.5126
98	PAB000136	0.0598	0.2311
99	PAB100136	0.0354	0.1260
100	PAB125136	0.0383	0.1334

Test: May01_17

dif

Date: Tue May 1 12:26:23 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0609	0.2372
102	PRV000001	0.0240	0.0901
103	PSR000001	0.0778	0.2694
104	PFM000001	0.0265	0.3529
105	PAN000136	0.0383	0.0467
106	PFM000002	0.0274	0.3142
107	EMPTY	0.0007	46.6667
108	EMPTY	0.0458	0.4890
109	EMPTY	0.0002	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0052	38.5185
113	VPW000002	0.0510	2428.5718
114	VPW000003	0.0126	58.8785
115	VPW000004	0.0061	9.0639
116	VPW000005	0.0305	635.4167
117	VPW000006	0.0122	83.5616
118	IPW000001	0.0805	30.4693
119	IPW000002	0.3672	67.2281
120	IPW000003	0.5603	74.1236
121	IPW000004	0.1435	119.3844
122	IPW000005	0.0056	4.0086
123	IPW000006	0.0217	7.1405
124	EMPTY	0.0008	4.0404
125	EMPTY	0.0005	3.7037
126	EMPTY	0.0004	2.4845
127	EMPTY	0.0015	9.5541
128	IHT000001	0.0036	9.7826
129	IHT000002	0.0088	52.6946
130	IHT000003	0.0122	40.0000
131	IHT000004	0.0156	85.7143
132	IHT000005	0.0132	880.0000
133	IHT000006	0.0368	36.9478
134	IHT000007	0.0063	13.8462
135	IHT000008	0.0254	100.0000
136	IHT000009	0.0085	23.2877
137	IHT000010	0.0276	83.1325
138	IHT000011	0.0045	53.5714
139	IHT000012	0.0086	34.2630
140	IHT000013	0.0080	10.1394
141	IHT000014	0.0003	0.3774
142	IHT000015	0.0072	20.5128
143	IHT000016	0.0114	109.6154
144	IHT000017	0.0320	56.6372
145	IHT000018	0.0325	162.5000
146	IHT000019	0.0131	11.0362
147	IHT000020	0.0007	2.4221
148	IHT000021	0.0034	6.1483
149	IHT000022	0.0022	1.7685
150	IHT000023	0.0170	27.4636
151	IHT000024	0.0112	13.7761
152	IHT000025	0.0109	9.8287
153	IHT000026	0.0045	10.2273
154	IHT000027	0.0078	18.6603
155	IHT000028	0.0036	8.5919

Test: May01_17

dif

Date: Tue May 1 12:26:23 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0033	20.1220
157	IHT000030	0.0098	12.9973
158	IHT000031	0.0180	47.8723
159	IHT000032	0.0040	35.3982
160	IHT000033	0.0082	70.0855
161	IHT000034	0.0063	12.1622
162	IHT000035	0.0014	4.2683
163	IHT000036	0.0044	22.5641

Velocity 1 = 25.1686 (ft/sec) (+/- 1.6912 %)
Velocity 2 = 13.6791 (ft/sec) (+/- 1.7009 %)
Pressure drop = 18.0952 (psi)
Tsats in = 280.3745 (deg F) Tsats out = 254.5661 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 12024.8965 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4016.6990 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.4880	75.1222	1.5521e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.2896	1.4490e-01	1.9000e+00
2	TFM000001	86.9413	87.8856	87.4594	2.3805e-01	1.9002e+00
3	TIN000001	86.7776	87.5136	87.1749	1.6893e-01	1.9002e+00
4	TRV000001	87.1891	87.9221	87.4555	1.5718e-01	1.9002e+00
5	TSR000001	87.4270	88.0556	87.7980	1.5437e-01	1.9002e+00
6	TAO020136	87.2623	88.2079	87.8192	1.8288e-01	1.9002e+00
7	TAO050136	87.3344	87.9630	87.7012	1.8947e-01	1.9002e+00
8	TAO070136	85.6717	86.6200	86.0197	1.8817e-01	1.9002e+00
9	TAO080136	87.2263	87.8555	87.5092	1.7971e-01	1.9002e+00
10	TAO090136	87.1987	88.0375	87.7461	1.9560e-01	1.9002e+00
11	TAO100136	87.1678	87.7975	87.5478	1.5422e-01	1.9002e+00
12	TAO105136	87.6602	88.6050	88.1704	2.1842e-01	1.9002e+00
13	TAO110136	85.5946	86.2241	85.8900	1.8160e-01	1.9002e+00
14	TAO115136	87.2198	88.2719	87.8198	2.3686e-01	1.9002e+00
15	TAO120136	87.0522	87.7834	87.4428	1.6208e-01	1.9002e+00
16	TAO125136	87.4500	88.0800	87.7251	1.7588e-01	1.9002e+00
17	TAO130136	87.0773	87.7039	87.4098	1.5155e-01	1.9002e+00
18	TAO120048	87.1888	87.9232	87.5813	1.5404e-01	1.9002e+00
19	TAO130048	86.9113	87.6457	87.2867	1.7727e-01	1.9002e+00
20	TAO120224	87.1143	87.9538	87.4441	1.8484e-01	1.9002e+00
21	TAO130224	87.1189	87.8523	87.4978	1.5373e-01	1.9002e+00
22	TAO120312	86.9352	87.7752	87.4246	1.8197e-01	1.9002e+00
23	TAO130312	86.9745	87.6039	87.3159	1.3548e-01	1.9002e+00
24	TRT020000	87.3414	88.2874	87.7934	1.9724e-01	1.9002e+00
25	TRT070000	87.3079	88.0456	87.7025	1.7127e-01	1.9002e+00
26	TRT100000	87.6673	88.4008	87.9130	1.7658e-01	1.9002e+00
27	TRT120000	87.3695	87.9996	87.6865	1.4760e-01	1.9002e+00
28	TRT125000	87.2303	88.1706	87.7761	2.1460e-01	1.9002e+00
29	TRT130000	87.1389	87.7681	87.5186	1.6796e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6745	2.1875e-01	1.9011e+00
31	TAF050136	87.4412	88.1756	87.7999	1.6134e-01	1.9002e+00
32	TAF070136	87.7542	88.5905	88.2332	1.9141e-01	1.9002e+00
33	TAF080136	87.2782	88.1125	87.6927	1.6703e-01	1.9002e+00
34	TAF090136	85.1013	86.2557	85.7210	2.7832e-01	1.9002e+00
35	TAF100136	87.2435	87.8740	87.5484	1.7537e-01	1.9002e+00
36	TAF105136	87.0592	88.1007	87.6491	2.3425e-01	1.9002e+00
37	TAF110136	87.0047	87.7384	87.3675	1.7622e-01	1.9002e+00
38	TAF115136	87.5399	88.3786	88.0034	2.0966e-01	1.9002e+00
39	TAF120136	87.3599	87.8852	87.6099	1.3561e-01	1.9002e+00
40	TAF125136	87.2320	88.2750	87.7967	2.6978e-01	1.9002e+00
41	TAF130136	87.2376	88.0764	87.6509	1.8515e-01	1.9002e+00
42	TAF120048	87.5011	88.5547	88.0596	2.4116e-01	1.9002e+00
43	TAF130048	87.1671	88.1110	87.5932	2.1444e-01	1.9002e+00
44	TAF120224	87.3450	88.0800	87.7166	1.8871e-01	1.9002e+00
45	TAF130224	86.7201	87.5626	87.1646	1.9661e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.1788e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1740	7.5380e-02	1.9010e+00
48	TAI130138	87.2406	88.3953	87.8893	2.9796e-01	1.9002e+00
49	TAI130226	86.8803	87.6139	87.1971	1.9217e-01	1.9002e+00
50	TAI130314	87.3873	88.4381	87.8730	2.5564e-01	1.9002e+00
51	TAI130042	86.7626	87.6031	87.2607	1.8596e-01	1.9002e+00
52	TRR130090	86.5434	87.6973	87.1245	2.4624e-01	1.9002e+00
53	TSI000001	81.5908	82.2232	81.8504	1.4625e-01	1.9001e+00
54	TSI000002	72.0920	73.1527	72.6417	2.6726e-01	1.9000e+00
55	TSO000001	68.3698	69.1182	68.7522	1.7018e-01	1.9000e+00
56	TSO000002	79.9942	80.8390	80.3765	2.1409e-01	1.9001e+00
57	TAF020136	86.6587	87.3964	87.0153	1.7666e-01	1.9002e+00
58	TAF120312	87.0553	87.9994	87.4312	2.6121e-01	1.9002e+00
59	TAF130312	86.6337	87.3686	86.9299	1.6100e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4777	1.8082e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4925	1.9754e-03	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5035	1.6028e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5220	1.4797e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3395	2.4642e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3607	1.6028e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3954	6.9053e-04	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4090	2.1065e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4255	1.7115e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4439	1.3381e-03	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4655	2.3365e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4798	2.1635e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.4991	2.0432e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5470	6.9053e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5667	1.1714e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5906	9.6655e-04	0.0000e+00
79	EMPTY	0.6104	0.6152	0.6106	1.1714e-03	0.0000e+00
80	PAN020136	63.1877	65.5528	64.4542	6.2838e-01	8.8480e-01
81	PAN050136	113.7092	116.6084	115.4517	5.8984e-01	1.7046e+00
82	PAN070136	79.6380	81.9268	80.9045	5.1005e-01	8.9320e-01
83	PAN080136	39.8578	41.0022	40.3766	2.7616e-01	8.7584e-01
84	PAN090136	36.0505	36.8898	36.4442	1.8131e-01	8.7476e-01
85	PAN100136	40.9627	41.8019	41.4845	1.8838e-01	8.7616e-01
86	PAN105136	19.5615	20.0955	19.8346	1.2531e-01	8.7141e-01
87	PAN110136	20.5753	21.0330	20.7370	1.1076e-01	8.7154e-01
88	PAN115136	19.4440	19.9780	19.7293	1.2313e-01	8.7140e-01
89	PAN120136	17.1700	17.4751	17.3378	8.9877e-02	8.7108e-01
90	PAN125136	19.6436	20.2539	19.9411	1.3011e-01	8.7143e-01
91	PAN130136	19.9605	20.4183	20.1650	9.9224e-02	8.7146e-01
92	PAN120048	34.2811	35.1203	34.7480	1.7139e-01	8.7433e-01
93	PAN130048	41.9721	42.7350	42.3795	1.9776e-01	8.7643e-01
94	PAN120224	39.7038	40.3904	40.1325	1.7017e-01	8.7577e-01
95	PAN130224	44.7025	45.4655	45.1023	1.8596e-01	8.7728e-01
96	PAN120312	36.4804	37.1671	36.8756	1.5543e-01	8.7487e-01
97	PAN130312	41.2694	42.1086	41.7501	1.7926e-01	8.7624e-01
98	PAB000136	49.2707	49.8658	49.5683	1.3505e-01	5.9309e-01
99	PAB100136	35.6135	35.8424	35.7472	5.1359e-02	5.8684e-01
100	PAB125136	32.0931	32.2762	32.1975	4.6278e-02	5.8556e-01

Test: May01_18

sum1

Date: Tue May 1 12:31:00 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	48.8203	49.7968	49.3501	2.2004e-01	7.6008e-01
102	PRV000001	26.4579	26.5800	26.5190	6.1655e-02	7.5292e-01
103	PSR000001	29.0989	29.2209	29.1013	1.7263e-02	7.5352e-01
104	PFM000001	96.9368	98.5847	97.6765	3.9186e-01	5.5644e-01
105	PAN000136	494.2357	505.6798	500.9740	2.2312e+00	5.0769e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-9.9463	-0.9160	-9.3738	2.3654e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0213	1.0145e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0138	9.9512e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0057	1.0106e-01	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.1025	1.0259e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0321	9.8963e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0263	1.1838e-01	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.5528	9.1997e-01	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.7807	1.0615e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.6871	1.2213e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.0714	2.6562e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.4852	1.8081e-01	2.0000e+00
123	IPW000006	-0.2160	0.7606	0.0477	2.6488e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.8409e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0151	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0189	3.2178e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0329	8.4997e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0362	1.0763e-01	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0344	8.6810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	8.6810e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0298	9.8332e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0840	1.1464e-01	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0612	9.4702e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0527	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0084	7.5283e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0095	1.0106e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	9.2456e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0834	9.0412e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0104	6.4113e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0604	1.5764e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0395	9.5112e-02	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1265	9.3461e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	8.2393e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT000022	-0.4056	-0.0150	-0.1088	1.0617e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0385	9.5765e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0969	8.1347e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0796	8.1347e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0284	8.1729e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	6.8345e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	9.9902e-02	4.1000e+00

Test: May01_18

sum1

Date: Tue May 1 12:31:00 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0164	7.5798e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0715	1.0617e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.0617e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0117	8.2864e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0675	1.0617e-01	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0328	1.0992e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0273	7.9017e-02	4.1000e+00

Velocity 1 = 25.2306 (ft/sec) (+/- 1.6910 %)
Velocity 2 = 13.6790 (ft/sec) (+/- 1.7009 %)
Pressure drop = 18.1265 (psi)
Tsats in = 280.3856 (deg F) Tsats out = 254.5428 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 11108.8662 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 28590.3184 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.4880	75.1147	1.7657e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.2724	1.3247e-01	1.9000e+00
2	TFM000001	87.0461	87.8849	87.4187	2.1190e-01	1.9002e+00
3	TIN000001	86.8824	87.4081	87.1573	1.3875e-01	1.9002e+00
4	TRV000001	86.9802	87.8174	87.3905	1.9200e-01	1.9002e+00
5	TSR000001	87.5317	88.0562	87.7713	1.4661e-01	1.9002e+00
6	TAO020136	87.3671	88.3132	87.8220	2.1914e-01	1.9002e+00
7	TAO050136	87.2306	87.9630	87.6533	1.8248e-01	1.9002e+00
8	TAO070136	85.5662	86.5146	85.9924	1.8374e-01	1.9002e+00
9	TAO080136	87.1216	87.7502	87.4957	1.5847e-01	1.9002e+00
10	TAO090136	87.1987	88.1416	87.7358	2.2090e-01	1.9002e+00
11	TAO100136	87.2726	87.9022	87.5298	1.6324e-01	1.9002e+00
12	TAO105136	87.5549	88.6050	88.1144	2.5587e-01	1.9002e+00
13	TAO110136	85.4897	86.1187	85.8130	1.5831e-01	1.9002e+00
14	TAO115136	87.2198	88.1666	87.7398	2.1409e-01	1.9002e+00
15	TAO120136	87.1554	87.6781	87.3976	1.2339e-01	1.9002e+00
16	TAO125136	87.2405	87.9747	87.6687	1.4650e-01	1.9002e+00
17	TAO130136	86.9755	87.7039	87.3489	1.5495e-01	1.9002e+00
18	TAO120048	87.2936	87.8185	87.5615	1.3887e-01	1.9002e+00
19	TAO130048	87.0161	87.5404	87.2346	1.6416e-01	1.9002e+00
20	TAO120224	87.0099	87.7447	87.3780	1.5621e-01	1.9002e+00
21	TAO130224	87.1189	87.7476	87.4375	1.3329e-01	1.9002e+00
22	TAO120312	87.0400	87.7757	87.3618	1.9342e-01	1.9002e+00
23	TAO130312	86.9739	87.4991	87.2780	1.5030e-01	1.9002e+00
24	TRT020000	87.4466	88.1827	87.7920	1.7832e-01	1.9002e+00
25	TRT070000	87.3079	88.0456	87.6266	1.8188e-01	1.9002e+00
26	TRT100000	87.4581	88.2962	87.9243	1.9130e-01	1.9002e+00
27	TRT120000	87.3695	87.9990	87.6609	1.5775e-01	1.9002e+00
28	TRT125000	87.3351	88.0670	87.6894	1.9298e-01	1.9002e+00
29	TRT130000	87.1389	87.7687	87.4793	1.5061e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6712	2.0953e-01	1.9011e+00
31	TAF050136	87.3368	88.0709	87.7901	1.6626e-01	1.9002e+00
32	TAF070136	87.7542	88.4866	88.1854	1.7670e-01	1.9002e+00
33	TAF080136	87.2763	88.1125	87.6246	1.7647e-01	1.9002e+00
34	TAF090136	85.2068	86.2562	85.7336	2.7052e-01	1.9002e+00
35	TAF100136	87.1382	87.8739	87.4602	1.8874e-01	1.9002e+00
36	TAF105136	87.0592	88.2060	87.5909	2.4390e-01	1.9002e+00
37	TAF110136	87.1091	87.6337	87.3386	1.3312e-01	1.9002e+00
38	TAF115136	87.5410	88.3786	87.9829	2.0546e-01	1.9002e+00
39	TAF120136	87.3599	87.8842	87.5978	1.2820e-01	1.9002e+00
40	TAF125136	87.2302	88.2750	87.7657	2.4879e-01	1.9002e+00
41	TAF130136	87.3424	87.9717	87.6294	1.5108e-01	1.9002e+00
42	TAF120048	87.6059	88.3436	88.0193	1.7601e-01	1.9002e+00
43	TAF130048	87.1671	87.9021	87.5741	1.6944e-01	1.9002e+00
44	TAF120224	87.2397	88.0799	87.6813	2.0777e-01	1.9002e+00
45	TAF130224	86.8249	87.5632	87.1651	1.7780e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0960	2.0988e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1933	9.3508e-02	1.9010e+00
48	TAI130138	87.2409	88.2901	87.8041	2.9341e-01	1.9002e+00
49	TAI130226	86.6717	87.5092	87.1416	1.8536e-01	1.9002e+00
50	TAI130314	87.2820	88.3335	87.8529	2.7226e-01	1.9002e+00
51	TAI130042	86.7632	87.4984	87.2131	1.8065e-01	1.9002e+00
52	TRR130090	86.6482	87.5925	87.1149	2.4399e-01	1.9002e+00
53	TSI000001	81.4862	82.2232	81.8471	1.5366e-01	1.9001e+00
54	TSI000002	72.1981	73.1533	72.6961	2.3620e-01	1.9000e+00
55	TSO000001	68.4762	69.1182	68.7775	1.8859e-01	1.9000e+00
56	TSO000002	79.9942	80.7337	80.3736	2.0545e-01	1.9001e+00
57	TAF020136	86.6587	87.2917	86.9731	1.6876e-01	1.9002e+00
58	TAF120312	86.9505	87.8941	87.3811	2.2572e-01	1.9002e+00
59	TAF130312	86.5292	87.2638	86.9401	1.7498e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4769	2.3135e-03	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4924	1.8234e-03	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5044	2.2737e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5224	6.9754e-04	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3387	2.3783e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3603	1.9883e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3954	6.9754e-04	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4084	2.3783e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4252	1.3508e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4438	1.4934e-03	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4655	2.3135e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4793	1.8234e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.4985	1.4934e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5161	2.2737e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5323	6.9754e-04	0.0000e+00
76	EMPTY	0.5469	0.5566	0.5471	1.3951e-03	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5666	9.7615e-04	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5909	6.9754e-04	0.0000e+00
79	EMPTY	0.6104	0.6152	0.6107	1.1827e-03	0.0000e+00
80	PAN020136	63.4929	65.7054	64.5065	5.3610e-01	8.8482e-01
81	PAN050136	114.3196	117.0661	115.7458	6.4403e-01	1.7047e+00
82	PAN070136	79.8669	82.0794	81.1607	4.8776e-01	8.9335e-01
83	PAN080136	39.7052	41.2311	40.4791	3.1186e-01	8.7587e-01
84	PAN090136	35.9742	36.8135	36.4491	2.0261e-01	8.7476e-01
85	PAN100136	41.1152	41.8782	41.5777	2.0389e-01	8.7619e-01
86	PAN105136	19.5615	20.0192	19.7981	1.3598e-01	8.7141e-01
87	PAN110136	20.5753	20.9567	20.8010	1.1545e-01	8.7155e-01
88	PAN115136	19.5966	20.1306	19.8924	1.3363e-01	8.7142e-01
89	PAN120136	17.0937	17.4751	17.3365	8.9019e-02	8.7108e-01
90	PAN125136	19.7199	20.2539	20.0438	1.4233e-01	8.7144e-01
91	PAN130136	19.9605	20.3420	20.1863	9.8445e-02	8.7146e-01
92	PAN120048	34.5100	35.1966	34.8774	1.7734e-01	8.7436e-01
93	PAN130048	42.0483	42.8113	42.4937	1.9720e-01	8.7646e-01
94	PAN120224	39.7801	40.5430	40.2363	1.7024e-01	8.7580e-01
95	PAN130224	44.7025	45.4655	45.2132	1.8636e-01	8.7731e-01
96	PAN120312	36.6330	37.3197	36.9647	1.7240e-01	8.7489e-01
97	PAN130312	41.5746	42.1849	41.8657	1.8006e-01	8.7627e-01
98	PAB000136	49.2707	49.7743	49.5771	1.2010e-01	5.9310e-01
99	PAB100136	35.6593	35.8424	35.7574	5.3678e-02	5.8685e-01
100	PAB125136	32.0931	32.2762	32.1847	3.9644e-02	5.8555e-01

Test: May01_18

sum2

Date: Tue May 1 12:31:00 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	48.8203	49.7968	49.2787	2.2221e-01	7.6005e-01
102	PRV000001	26.4579	26.5800	26.4853	5.1461e-02	7.5292e-01
103	PSR000001	28.9768	29.2209	29.0989	2.4917e-02	7.5352e-01
104	PFM000001	96.9368	98.8594	98.1606	5.0343e-01	5.5698e-01
105	PAN000136	497.4401	506.1376	501.8403	2.4201e+00	5.0774e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5417e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1827e-03	0.0000e+00
108	EMPTY	-9.8340	-8.7891	-9.3242	2.1384e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.9670e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0043	1.6172e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0067	8.7123e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0570	9.2715e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0088	9.9792e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0851	1.0594e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0074	1.1658e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0183	7.9328e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.5400	1.0832e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.1790	1.1208e+00	8.1000e+00
120	IPW000003	-0.5999	1.3501	0.3950	9.8490e-01	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.0744	2.4826e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.4039	2.5188e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0566	2.8866e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0213	2.7646e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.7277e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0180	3.3362e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.2124e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0324	1.1014e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0255	9.5812e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0347	9.6318e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0378	1.0156e-01	4.1000e+00
132	IHT000005	-0.2554	0.3305	-0.0003	1.1419e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0907	8.9148e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0318	9.8648e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0070	8.9148e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0519	7.3601e-02	4.1000e+00
137	IHT000010	0.0488	0.2441	0.0648	5.4032e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0031	6.1868e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0125	9.9792e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0589	7.1817e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0838	8.2141e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0159	7.8092e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0139	8.2141e-02	4.1000e+00
144	IHT000017	-0.2479	0.3380	-0.0964	1.5577e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0406	1.0378e-01	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1318	9.5132e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0282	7.2937e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0468	7.6412e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0987	9.7656e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0369	9.6150e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.1005	7.8092e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0760	9.6318e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0435	7.9736e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0460	8.7680e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0383	1.1560e-01	4.1000e+00

Test: May01_18

sum2

Date: Tue May 1 12:31:00 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0091	8.9148e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0816	1.0548e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0316	1.2028e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0033	7.9328e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0080	6.8582e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0176	8.2338e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0262	9.2540e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0199	7.1817e-02	4.1000e+00

Test: May01_18 dif Date: Tue May 1 12:31:00 1990 Page: 1

Velocity 1 = 0.062000 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.031300 (psi)

Tsat in = 0.011078 (deg F) Tsat out = 0.023300 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0075	0.0100
1	TRF000002	0.0172	0.0228
2	TFM000001	0.0407	0.0465
3	TIN000001	0.0176	0.0202
4	TRV000001	0.0650	0.0743
5	TSR000001	0.0267	0.0304
6	TAO020136	0.0028	0.0032
7	TAO050136	0.0479	0.0546
8	TAO070136	0.0273	0.0317
9	TAO080136	0.0135	0.0154
10	TAO090136	0.0103	0.0117
11	TAO100136	0.0180	0.0206
12	TAO105136	0.0560	0.0635
13	TAO110136	0.0770	0.0896
14	TAO115136	0.0800	0.0911
15	TAO120136	0.0452	0.0517
16	TAO125136	0.0564	0.0643
17	TAO130136	0.0609	0.0697
18	TAO120048	0.0198	0.0226
19	TAO130048	0.0521	0.0597
20	TAO120224	0.0661	0.0756
21	TAO130224	0.0603	0.0689
22	TAO120312	0.0628	0.0718
23	TAO130312	0.0379	0.0434
24	TRT020000	0.0014	0.0016
25	TRT070000	0.0759	0.0865
26	TRT100000	0.0113	0.0129
27	TRT120000	0.0256	0.0292
28	TRT125000	0.0867	0.0988
29	TRT130000	0.0393	0.0449
30	EMPTY	0.0033	0.0083
31	TAF050136	0.0098	0.0112
32	TAF070136	0.0478	0.0542
33	TAF080136	0.0681	0.0777
34	TAF090136	0.0126	0.0147
35	TAF100136	0.0882	0.1007
36	TAF105136	0.0582	0.0664
37	TAF110136	0.0289	0.0331
38	TAF115136	0.0205	0.0233
39	TAF120136	0.0121	0.0138
40	TAF125136	0.0310	0.0353
41	TAF130136	0.0215	0.0245
42	TAF120048	0.0403	0.0458
43	TAF130048	0.0191	0.0218
44	TAF120224	0.0353	0.0402
45	TAF130224	0.0005	0.0006

#	Name	Abs Diff	%Diff
46	EMPTY	0.0066	0.0173
47	EMPTY	0.0193	0.0493
48	TAI130138	0.0852	0.0969
49	TAI130226	0.0555	0.0636
50	TAI130314	0.0201	0.0229
51	TAI130042	0.0476	0.0545
52	TRR130090	0.0096	0.0110
53	TSI000001	0.0033	0.0040
54	TSI000002	0.0544	0.0749
55	TSO000001	0.0253	0.0368
56	TSO000002	0.0029	0.0036
57	TAF020136	0.0422	0.0485
58	TAF120312	0.0501	0.0573
59	TAF130312	0.0102	0.0117
60	EMPTY	0.0008	0.1675
61	EMPTY	0.0001	0.0203
62	EMPTY	0.0009	0.1788
63	EMPTY	0.0004	0.0766
64	EMPTY	0.0008	0.2356
65	EMPTY	0.0004	0.1109
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0006	0.1467
69	EMPTY	0.0003	0.0705
70	EMPTY	0.0001	0.0225
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0005	0.1042
73	EMPTY	0.0006	0.1202
74	EMPTY	0.0007	0.1358
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0183
77	EMPTY	0.0001	0.0176
78	EMPTY	0.0003	0.0508
79	EMPTY	0.0001	0.0164
80	PAN020136	0.0523	0.0811
81	PAN050136	0.2941	0.2547
82	PAN070136	0.2562	0.3167
83	PAN080136	0.1025	0.2539
84	PAN090136	0.0049	0.0135
85	PAN100136	0.0932	0.2247
86	PAN105136	0.0365	0.1840
87	PAN110136	0.0640	0.3086
88	PAN115136	0.1631	0.8267
89	PAN120136	0.0013	0.0075
90	PAN125136	0.1027	0.5150
91	PAN130136	0.0213	0.1056
92	PAN120048	0.1294	0.3724
93	PAN130048	0.1142	0.2695
94	PAN120224	0.1038	0.2586
95	PAN130224	0.1109	0.2459
96	PAN120312	0.0891	0.2416
97	PAN130312	0.1156	0.2769
98	PAB000136	0.0088	0.0178
99	PAB100136	0.0102	0.0285
100	PAB125136	0.0128	0.0397

Test: May01_18

dif

Date: Tue May 1 12:31:00 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0714	0.1447
102	PRV000001	0.0337	0.1271
103	PSR000001	0.0024	0.0082
104	PFM000001	0.4841	0.4956
105	PAN000136	0.8663	0.1729
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0417
108	EMPTY	0.0496	0.5291
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	6.5217
112	VPW000001	0.0146	68.5446
113	VPW000002	0.0432	313.0435
114	VPW000003	0.0031	54.3860
115	VPW000004	0.0174	16.9756
116	VPW000005	0.0247	76.9470
117	VPW000006	0.0080	30.4182
118	IPW000001	0.0128	0.8243
119	IPW000002	0.9597	122.9281
120	IPW000003	0.2921	42.5120
121	IPW000004	0.0030	4.2017
122	IPW000005	0.0813	16.7560
123	IPW000006	0.1043	218.6583
124	EMPTY	0.0004	1.8433
125	EMPTY	0.0006	3.9735
126	EMPTY	0.0009	4.7619
127	EMPTY	0.0014	9.4595
128	IHT000001	0.0005	1.5198
129	IHT000002	0.0107	29.5580
130	IHT000003	0.0003	0.8721
131	IHT000004	0.0196	107.6923
132	IHT000005	0.0301	101.0067
133	IHT000006	0.0067	7.9762
134	IHT000007	0.0294	48.0392
135	IHT000008	0.0301	81.1321
136	IHT000009	0.0076	17.1558
137	IHT000010	0.0121	22.9601
138	IHT000011	0.0115	136.9048
139	IHT000012	0.0030	31.5790
140	IHT000013	0.0161	21.4667
141	IHT000014	0.0004	0.4796
142	IHT000015	0.0114	41.7582
143	IHT000016	0.0035	33.6538
144	IHT000017	0.0360	59.6026
145	IHT000018	0.0011	2.7848
146	IHT000019	0.0053	4.1897
147	IHT000020	0.0007	2.4221
148	IHT000021	0.0071	17.8841
149	IHT000022	0.0101	9.2831
150	IHT000023	0.0016	4.1558
151	IHT000024	0.0036	3.7152
152	IHT000025	0.0036	4.5226
153	IHT000026	0.0151	53.1690
154	IHT000027	0.0160	53.3333
155	IHT000028	0.0003	0.7895

Test: May01_18 dif Date: Tue May 1 12:31:00 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0073	44.5122
157	IHT000030	0.0101	14.1259
158	IHT000031	0.0099	23.8554
159	IHT000032	0.0002	5.7143
160	IHT000033	0.0037	31.6239
161	IHT000034	0.0499	73.9259
162	IHT000035	0.0066	20.1220
163	IHT000036	0.0074	27.1062

Velocity 1 = 25.9997 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4159 (ft/sec) (+/- 1.7032 %)
Pressure drop = 18.1064 (psi)
Tsats in = 267.7006 (deg F) Tsats out = 234.7158 (deg F)
Phi inner = 101.6722 (kBtu/hr-ft2) (+/- 1.4099 %)
Phi outer = 101.5592 (kBtu/hr-ft2) (+/- 1.6177 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.3476	72.9870	72.8037	1.7227e-01	1.9000e+00
1	TRF000002	72.7964	73.4321	73.0846	1.3374e-01	1.9000e+00
2	TFM000001	85.4036	86.3476	85.8802	1.9793e-01	1.9002e+00
3	TIN000001	85.4167	86.0477	85.8268	1.4135e-01	1.9002e+00
4	TRV000001	85.2346	86.1771	85.8154	2.0438e-01	1.9002e+00
5	TSR000001	103.7591	106.0252	105.0183	6.4172e-01	1.9008e+00
6	TAO020136	108.0250	109.0581	108.6758	2.4184e-01	1.9010e+00
7	TAO050136	109.7747	110.3926	110.1068	1.6263e-01	1.9011e+00
8	TAO070136	117.1384	118.1659	117.8312	2.1052e-01	1.9015e+00
9	TAO080136	116.1669	116.8824	116.5248	1.6572e-01	1.9015e+00
10	TAO090136	117.6696	118.4883	118.0566	2.0184e-01	1.9016e+00
11	TAO100136	113.9782	114.9015	114.4403	1.9481e-01	1.9013e+00
12	TAO105136	115.3273	116.2519	115.7322	2.0798e-01	1.9014e+00
13	TAO110136	117.3252	117.9381	117.6869	1.6651e-01	1.9015e+00
14	TAO115136	116.2666	117.2952	116.7993	2.3655e-01	1.9015e+00
15	TAO120136	121.1248	121.9385	121.5544	1.7845e-01	1.9018e+00
16	TAO125136	116.2182	117.0384	116.5858	2.0710e-01	1.9015e+00
17	TAO130136	116.1510	116.9651	116.6255	1.8362e-01	1.9015e+00
18	TAO120048	122.1635	122.9803	122.5539	1.7703e-01	1.9019e+00
19	TAO130048	118.1294	118.7432	118.4426	1.6328e-01	1.9016e+00
20	TAO120224	120.1889	121.1089	120.6736	1.9465e-01	1.9017e+00
21	TAO130224	115.0363	115.8539	115.4761	1.8045e-01	1.9014e+00
22	TAO120312	120.2408	121.1609	120.7624	2.1100e-01	1.9017e+00
23	TAO130312	119.4045	120.0184	119.8240	1.7063e-01	1.9017e+00
24	TRT020000	106.0108	106.9434	106.5104	1.9375e-01	1.9009e+00
25	TRT070000	114.4559	115.2803	114.8332	1.9037e-01	1.9014e+00
26	TRT100000	119.7589	120.4731	120.1158	1.8014e-01	1.9017e+00
27	TRT120000	118.1796	118.7938	118.5379	1.3760e-01	1.9016e+00
28	TRT125000	121.6552	122.4693	122.1863	1.8535e-01	1.9018e+00
29	TRT130000	120.1727	120.8873	120.4934	1.5715e-01	1.9017e+00
30	EMPTY	39.1464	39.8352	39.4771	1.9214e-01	1.9010e+00
31	TAF050136	92.9724	93.8067	93.4627	1.8398e-01	1.9004e+00
32	TAF070136	95.9030	96.7333	96.3374	2.0090e-01	1.9005e+00
33	TAF080136	117.4717	118.7926	118.0361	3.1241e-01	1.9016e+00
34	TAF090136	105.3480	106.2780	105.8792	2.6885e-01	1.9009e+00
35	TAF100136	99.0859	99.9185	99.5001	2.0649e-01	1.9006e+00
36	TAF105136	99.8712	100.8005	100.2504	2.5348e-01	1.9006e+00
37	TAF110136	105.0298	105.6506	105.3263	1.7214e-01	1.9008e+00
38	TAF115136	101.7392	102.5683	102.2056	2.2186e-01	1.9007e+00
39	TAF120136	109.3751	110.0955	109.7231	1.7509e-01	1.9011e+00
40	TAF125136	103.0801	104.1117	103.6518	3.0819e-01	1.9008e+00
41	TAF130136	103.9949	104.6164	104.3371	1.5402e-01	1.9008e+00
42	TAF120048	105.0258	106.0648	105.6262	2.4790e-01	1.9009e+00
43	TAF130048	106.3932	107.1163	106.7631	1.8200e-01	1.9009e+00
44	TAF120224	102.7191	103.5489	103.1985	1.9298e-01	1.9007e+00
45	TAF130224	103.8178	104.6487	104.2684	1.7763e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0020	1.9975e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2108	1.0415e-01	1.9010e+00
48	TAI130138	113.3407	114.5741	114.0418	3.0777e-01	1.9013e+00
49	TAI130226	112.9019	113.6209	113.2579	1.5685e-01	1.9013e+00
50	TAI130314	116.1100	117.3425	116.6666	2.7387e-01	1.9015e+00
51	TAI130042	114.3155	115.2403	114.7819	1.8239e-01	1.9014e+00
52	TRR130090	109.3592	111.6199	110.5737	6.2144e-01	1.9011e+00
53	TSI000001	46.8279	47.6939	47.3111	1.8988e-01	1.9003e+00
54	TSI000002	123.2705	124.4913	123.8997	3.4255e-01	1.9020e+00
55	TSO000001	46.1721	47.0425	46.6006	1.8978e-01	1.9004e+00
56	TSO000002	52.9656	54.0443	53.6239	2.2669e-01	1.9002e+00
57	TAF020136	86.6390	87.4817	87.1131	1.9531e-01	1.9002e+00
58	TAF120312	104.2263	105.2606	104.7622	2.4690e-01	1.9008e+00
59	TAF130312	107.4792	108.3040	107.9227	1.6441e-01	1.9010e+00
60	EMPTY	1.0156	1.0205	1.0161	1.4797e-03	0.0000e+00
61	EMPTY	1.0254	1.0303	1.0273	2.4164e-03	0.0000e+00
62	EMPTY	1.0352	1.0400	1.0375	2.4642e-03	0.0000e+00
63	EMPTY	1.0498	1.0547	1.0504	1.6028e-03	0.0000e+00
64	EMPTY	0.5811	0.5859	0.5816	1.6028e-03	0.0000e+00
65	EMPTY	0.6006	0.6055	0.6010	1.3381e-03	0.0000e+00
66	EMPTY	0.6104	0.6201	0.6155	1.5314e-03	0.0000e+00
67	EMPTY	0.6299	0.6348	0.6345	1.1714e-03	0.0000e+00
68	EMPTY	0.6445	0.6494	0.6452	1.7115e-03	0.0000e+00
69	EMPTY	0.6592	0.6641	0.6640	6.9053e-04	0.0000e+00
70	EMPTY	0.6738	0.6787	0.6786	6.9053e-04	0.0000e+00
71	EMPTY	0.6982	0.7031	0.6989	1.7115e-03	0.0000e+00
72	EMPTY	0.7080	0.7129	0.7128	6.9053e-04	0.0000e+00
73	EMPTY	0.7275	0.7324	0.7314	1.9730e-03	0.0000e+00
74	EMPTY	0.7422	0.7471	0.7452	2.3941e-03	0.0000e+00
75	EMPTY	0.7568	0.7666	0.7616	1.5566e-03	0.0000e+00
76	EMPTY	0.7715	0.7764	0.7756	1.8082e-03	0.0000e+00
77	EMPTY	0.7910	0.7959	0.7935	2.4662e-03	0.0000e+00
78	EMPTY	0.8105	0.8154	0.8153	6.9053e-04	0.0000e+00
79	EMPTY	0.8350	0.8350	0.8350	0.0000e+00	0.0000e+00
80	PAN020136	63.6058	66.7338	64.9989	7.7649e-01	8.8505e-01
81	PAN050136	116.9928	118.9765	117.9816	5.1606e-01	1.7057e+00
82	PAN070136	79.4590	80.9086	80.3303	3.4607e-01	8.9288e-01
83	PAN080136	38.2527	39.8549	39.1453	3.5359e-01	8.7549e-01
84	PAN090136	36.5655	37.8625	37.1225	3.2378e-01	8.7494e-01
85	PAN100136	39.6158	40.7602	40.1590	2.7384e-01	8.7577e-01
86	PAN105136	19.7977	20.5606	20.1013	1.9096e-01	8.7145e-01
87	PAN110136	19.3883	20.3801	19.8826	2.2508e-01	8.7142e-01
88	PAN115136	21.2986	22.4430	21.8510	2.8859e-01	8.7171e-01
89	PAN120136	18.2894	18.6709	18.4893	8.4269e-02	8.7123e-01
90	PAN125136	20.1146	20.7250	20.3771	1.4056e-01	8.7149e-01
91	PAN130136	17.9606	18.5710	18.2414	1.4164e-01	8.7119e-01
92	PAN120048	33.0691	33.7558	33.3300	1.7445e-01	8.7398e-01
93	PAN130048	42.8510	43.5377	43.1516	1.5522e-01	8.7666e-01
94	PAN120224	40.3993	41.3148	40.8723	2.3729e-01	8.7598e-01
95	PAN130224	46.6759	47.5151	47.0680	1.6886e-01	8.7792e-01
96	PAN120312	37.0731	38.1412	37.6422	2.3989e-01	8.7507e-01
97	PAN130312	41.9061	42.5928	42.2784	1.5842e-01	8.7640e-01
98	PAB000136	39.9935	40.5886	40.2233	1.4695e-01	5.8865e-01
99	PAB100136	26.2500	26.5247	26.3635	6.1513e-02	5.8373e-01
100	PAB125136	22.6724	22.8097	22.7474	3.8974e-02	5.8278e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.5721	40.7928	40.0579	2.3846e-01	7.5666e-01
102	PRV0000001	19.7263	19.9704	19.8117	6.1655e-02	7.5163e-01
103	PSR0000001	19.5245	19.6465	19.6368	3.3453e-02	7.5160e-01
104	PFM0000001	103.1183	105.0409	104.2866	5.3944e-01	5.6389e-01
105	PAN000136	496.7267	507.7130	501.2860	2.2690e+00	5.0771e+00
106	PFM0000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-8.5498	-7.6270	-8.0571	1.5527e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0087	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7115e-03	0.0000e+00
112	VPW0000001	101.9644	102.5503	102.2730	1.2534e-01	1.0162e+00
113	VPW0000002	119.5650	119.9557	119.7837	9.3710e-02	1.0829e+00
114	VPW0000003	147.2581	147.6487	147.3910	1.0014e-01	1.1992e+00
115	VPW0000004	104.9429	105.5288	105.2007	1.3917e-01	1.0269e+00
116	VPW0000005	139.5545	140.1405	139.8397	1.3211e-01	1.1662e+00
117	VPW0000006	146.2553	146.8412	146.5600	1.7717e-01	1.1956e+00
118	IPW0000001	545.8301	559.4966	551.5701	4.0688e+00	9.1977e+00
119	IPW0000002	1297.3693	1309.0769	1302.7159	3.4324e+00	1.3097e+01
120	IPW0000003	1330.2749	1340.0249	1334.7209	2.6731e+00	1.3296e+01
121	IPW0000004	386.3526	387.8174	386.7726	3.9471e-01	3.6519e+00
122	IPW0000005	255.3925	256.8572	256.2519	4.0140e-01	2.8457e+00
123	IPW0000006	268.0382	269.5031	268.7217	3.8206e-01	2.9166e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.5895e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0137	3.2718e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	3.8066e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT0000001	131.8923	134.4313	133.2711	6.0026e-01	4.3112e+00
129	IHT0000002	132.4069	134.5553	133.6685	5.5833e-01	4.3124e+00
130	IHT0000003	131.4153	133.5637	132.6066	5.4569e-01	4.3091e+00
131	IHT0000004	132.0838	134.4276	133.4393	5.5721e-01	4.3117e+00
132	IHT0000005	129.8377	132.1815	130.9120	5.4426e-01	4.3039e+00
133	IHT0000006	125.8977	128.4368	127.0304	5.5102e-01	4.2923e+00
134	IHT0000007	130.3936	132.9327	131.4444	5.9306e-01	4.3056e+00
135	IHT0000008	130.4199	132.9590	131.4785	5.6233e-01	4.3057e+00
136	IHT0000009	131.1110	133.6501	132.4391	5.3959e-01	4.3086e+00
137	IHT0000010	130.3260	133.6463	131.4550	5.6261e-01	4.3056e+00
138	IHT0000011	134.7468	137.8718	135.7743	5.6194e-01	4.3190e+00
139	IHT0000012	128.6433	131.3777	129.5926	5.5665e-01	4.2999e+00
140	IHT0000013	92.2776	94.8167	93.1644	5.1329e-01	4.2045e+00
141	IHT0000014	128.2189	130.5627	129.1759	5.2237e-01	4.2987e+00
142	IHT0000015	96.3079	98.4563	97.1164	4.8810e-01	4.2134e+00
143	IHT0000016	89.2390	91.5828	90.1570	4.6228e-01	4.1980e+00
144	IHT0000017	105.6641	109.1797	107.0391	8.4994e-01	4.2374e+00
145	IHT0000018	108.0266	110.7610	109.2844	6.0123e-01	4.2431e+00
146	IHT0000019	103.3767	106.3063	104.7790	6.2101e-01	4.2318e+00
147	IHT0000020	106.5956	109.3299	107.9081	5.8132e-01	4.2396e+00
148	IHT0000021	-3.1513	0.3644	-1.3466	7.2390e-01	4.1000e+00
149	IHT0000022	92.9725	95.5116	94.1678	5.7540e-01	4.2068e+00
150	IHT0000023	105.7993	108.3383	106.9946	5.3181e-01	4.2373e+00
151	IHT0000024	71.4693	74.0084	72.5084	5.0907e-01	4.1636e+00
152	IHT0000025	103.7748	106.1185	104.6303	4.8950e-01	4.2314e+00
153	IHT0000026	105.2622	107.0200	105.9692	4.3205e-01	4.2347e+00
154	IHT0000027	90.0503	92.5894	91.1831	5.3379e-01	4.2002e+00
155	IHT0000028	91.6091	94.9294	93.2966	6.4809e-01	4.2048e+00

Test: May03_11

sum1

Date: Thu May 3 11:36:31 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0631	107.9928	106.6412	6.3972e-01	4.2364e+00
157	IHT000030	107.0838	110.4042	108.8026	6.4235e-01	4.2419e+00
158	IHT000031	106.3702	109.2999	107.7412	5.8990e-01	4.2392e+00
159	IHT000032	107.6285	110.1675	108.8316	6.2932e-01	4.2420e+00
160	IHT000033	107.6097	110.1487	108.7894	6.1884e-01	4.2419e+00
161	IHT000034	94.7754	96.5332	95.4590	4.4161e-01	4.2097e+00
162	IHT000035	124.7897	126.9381	125.6685	4.9481e-01	4.2883e+00
163	IHT000036	93.1979	94.9557	93.9751	4.3133e-01	4.2063e+00

Velocity 1 = 26.0253 (ft/sec) (+/- 1.6887 %)
Velocity 2 = 13.4163 (ft/sec) (+/- 1.7032 %)
Pressure drop = 18.0714 (psi)
Tsats in = 267.7495 (deg F) Tsats out = 234.8626 (deg F)
Phi inner = 102.0881 (kBtu/hr-ft2) (+/- 1.4088 %)
Phi outer = 102.0162 (kBtu/hr-ft2) (+/- 1.6162 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.5608	73.2000	72.8591	1.8265e-01	1.9000e+00
1	TRF000002	73.0083	73.4321	73.1355	1.2108e-01	1.9000e+00
2	TFM000001	85.8230	86.5583	86.2346	1.8461e-01	1.9002e+00
3	TIN000001	85.8374	86.5731	86.2033	1.6623e-01	1.9002e+00
4	TRV000001	85.7578	86.5969	86.1481	1.9291e-01	1.9002e+00
5	TSR000001	103.6570	106.0264	104.9713	6.4839e-01	1.9008e+00
6	TAO020136	108.4377	109.5747	108.9713	2.4907e-01	1.9010e+00
7	TAO050136	109.9815	110.8022	110.4861	1.8892e-01	1.9011e+00
8	TAO070136	117.6525	118.4742	118.0552	1.9990e-01	1.9016e+00
9	TAO080136	116.5744	117.1889	116.8857	1.4899e-01	1.9015e+00
10	TAO090136	118.0790	118.7953	118.3653	1.9387e-01	1.9016e+00
11	TAO100136	114.5935	115.1076	114.8156	1.4577e-01	1.9014e+00
12	TAO105136	115.5328	116.4573	116.0588	2.1729e-01	1.9014e+00
13	TAO110136	117.6302	118.2435	117.9936	1.4896e-01	1.9016e+00
14	TAO115136	116.7804	117.7059	117.1673	2.2228e-01	1.9015e+00
15	TAO120136	121.6316	122.2433	121.9253	1.6664e-01	1.9018e+00
16	TAO125136	116.6287	117.3457	116.9767	1.5632e-01	1.9015e+00
17	TAO130136	116.7594	117.2697	116.9997	1.5517e-01	1.9015e+00
18	TAO120048	122.5717	123.2864	122.8863	1.9648e-01	1.9019e+00
19	TAO130048	118.4355	119.2534	118.8118	1.7579e-01	1.9016e+00
20	TAO120224	120.5976	121.4155	121.0106	1.7878e-01	1.9018e+00
21	TAO130224	115.5456	116.1601	115.8569	1.6518e-01	1.9014e+00
22	TAO120312	120.6500	121.5703	121.0589	1.8713e-01	1.9018e+00
23	TAO130312	119.9150	120.5287	120.1525	1.4672e-01	1.9017e+00
24	TRT020000	106.4256	107.2543	106.8938	2.0750e-01	1.9009e+00
25	TRT070000	114.8687	115.3850	115.1863	1.3945e-01	1.9014e+00
26	TRT100000	120.1667	120.7789	120.4483	1.8159e-01	1.9017e+00
27	TRT120000	118.5889	119.3046	118.8957	1.6671e-01	1.9016e+00
28	TRT125000	122.1626	122.7743	122.5090	1.6947e-01	1.9019e+00
29	TRT130000	120.5802	121.1934	120.8501	1.5820e-01	1.9017e+00
30	EMPTY	39.1464	40.0646	39.5551	2.2382e-01	1.9014e+00
31	TAF050136	93.3897	94.2228	93.8104	1.8601e-01	1.9004e+00
32	TAF070136	96.2149	97.1494	96.7377	2.2683e-01	1.9005e+00
33	TAF080136	117.8781	118.9980	118.4488	2.9287e-01	1.9016e+00
34	TAF090136	105.5556	106.5875	106.0919	2.4420e-01	1.9009e+00
35	TAF100136	99.3981	100.2308	99.8769	2.1442e-01	1.9006e+00
36	TAF105136	100.0791	101.1105	100.6154	2.4645e-01	1.9006e+00
37	TAF110136	105.3398	105.9604	105.6542	1.6431e-01	1.9009e+00
38	TAF115136	102.1532	103.0861	102.5597	1.9393e-01	1.9007e+00
39	TAF120136	109.7858	110.4042	110.0785	1.6031e-01	1.9011e+00
40	TAF125136	103.5949	104.4195	103.9957	2.4127e-01	1.9008e+00
41	TAF130136	104.4092	104.9267	104.7110	1.3361e-01	1.9008e+00
42	TAF120048	105.6490	106.6894	106.0445	2.2524e-01	1.9009e+00
43	TAF130048	106.8059	107.5288	107.1284	1.6906e-01	1.9009e+00
44	TAF120224	103.0304	104.0671	103.5653	1.7442e-01	1.9008e+00
45	TAF130224	104.4410	105.0650	104.6617	1.7008e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0480	2.1434e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2613	1.1598e-01	1.9010e+00
48	TAI130138	113.9576	115.1903	114.5535	2.7456e-01	1.9013e+00
49	TAI130226	113.3130	114.1327	113.6410	1.7574e-01	1.9013e+00
50	TAI130314	116.5203	117.6508	117.1166	2.9860e-01	1.9015e+00
51	TAI130042	114.8289	115.8558	115.2236	2.1202e-01	1.9014e+00
52	TRR130090	103.9996	107.6089	106.4301	8.3601e-01	1.9009e+00
53	TSI000001	46.8279	47.6952	47.2702	1.9926e-01	1.9003e+00
54	TSI000002	123.5762	125.5085	124.5078	4.3211e-01	1.9020e+00
55	TSO000001	46.1713	46.9342	46.6200	2.0826e-01	1.9004e+00
56	TSO000002	53.1816	54.1525	53.6520	2.4135e-01	1.9002e+00
57	TAF020136	86.9554	87.7979	87.4273	2.0545e-01	1.9002e+00
58	TAF120312	104.6402	105.6738	105.1777	2.8027e-01	1.9008e+00
59	TAF130312	107.8917	108.6133	108.2789	1.6740e-01	1.9010e+00
60	EMPTY	1.0205	1.0254	1.0237	2.3365e-03	0.0000e+00
61	EMPTY	1.0303	1.0352	1.0347	1.4797e-03	0.0000e+00
62	EMPTY	1.0400	1.0498	1.0448	1.2041e-03	0.0000e+00
63	EMPTY	1.0547	1.0596	1.0590	1.6028e-03	0.0000e+00
64	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
65	EMPTY	0.6006	0.6104	0.6052	1.5314e-03	0.0000e+00
66	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
67	EMPTY	0.6348	0.6396	0.6362	2.2603e-03	0.0000e+00
68	EMPTY	0.6494	0.6494	0.6494	0.0000e+00	0.0000e+00
69	EMPTY	0.6641	0.6689	0.6660	2.4164e-03	0.0000e+00
70	EMPTY	0.6787	0.6836	0.6809	2.4484e-03	0.0000e+00
71	EMPTY	6982	0.7031	0.7030	6.9053e-04	0.0000e+00
72	EMPTY	0.7129	0.7178	0.7168	1.9730e-03	0.0000e+00
73	EMPTY	0.7324	0.7373	0.7328	1.3381e-03	0.0000e+00
74	EMPTY	0.741	0.7520	0.7473	9.6655e-04	0.0000e+00
75	EMPTY	0.7617	0.7666	0.7643	2.4642e-03	0.0000e+00
76	EMPTY	0.7764	0.7813	0.7766	9.6655e-04	0.0000e+00
77	EMPTY	0.7959	0.7959	0.7959	0.0000e+00	0.0000e+00
78	EMPTY	0.8154	0.8203	0.8170	2.3008e-03	0.0000e+00
79	EMPTY	0.8350	0.8398	0.8396	1.1714e-03	0.0000e+00
80	PAN020136	63.7583	66.7338	65.1988	7.6970e-01	8.8514e-01
81	PAN050136	116.9928	118.9765	117.7558	3.7881e-01	1.7056e+00
82	PAN070136	79.6116	81.1375	80.1747	3.1585e-01	8.9279e-01
83	PAN080136	38.4053	39.9312	39.2079	3.7257e-01	8.7550e-01
84	PAN090136	36.2604	37.4811	37.0126	2.3830e-01	8.7491e-01
85	PAN100136	39.3106	40.6076	39.9622	2.7711e-01	8.7572e-01
86	PAN105136	19.7977	20.4843	20.1227	1.8612e-01	8.7145e-01
87	PAN110136	19.3120	20.3801	19.9376	2.2390e-01	8.7143e-01
88	PAN115136	21.2223	22.0616	21.6785	2.1218e-01	8.7169e-01
89	PAN120136	18.2131	18.6709	18.4633	1.0794e-01	8.7122e-01
90	PAN125136	20.1146	20.6487	20.3267	1.2830e-01	8.7148e-01
91	PAN130136	17.8843	18.4947	18.1819	1.3547e-01	8.7119e-01
92	PAN120048	32.9165	33.5269	33.2141	1.3894e-01	8.7395e-01
93	PAN130048	42.6984	43.3851	43.0265	1.7112e-01	8.7662e-01
94	PAN120224	40.3230	41.0859	40.7319	1.8863e-01	8.7594e-01
95	PAN130224	46.6759	47.3625	46.9551	1.7275e-01	8.7788e-01
96	PAN120312	36.9205	37.8360	37.4469	2.0579e-01	8.7502e-01
97	PAN130312	41.8298	42.5165	42.1930	1.5068e-01	8.7637e-01
98	PAB000136	40.0393	40.4970	40.2563	1.0896e-01	5.8867e-01
99	PAB100136	26.3416	26.5247	26.4230	4.9190e-02	5.8375e-01
100	PAB125136	22.7181	22.8555	22.8079	3.5770e-02	5.8280e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6941	40.4266	40.0677	1.5482e-01	7.5666e-01
102	PRV000001	19.7263	19.8484	19.8337	4.0071e-02	7.5164e-01
103	PSR000001	19.6465	19.7686	19.6734	5.1081e-02	7.5161e-01
104	PFM000001	103.3014	105.3156	104.4861	4.5959e-01	5.6412e-01
105	PAN000136	496.2689	503.5931	500.3156	1.7286e+00	5.0765e+00
106	PFM000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0094	1.3381e-03	0.0000e+00
108	EMPTY	-8.3838	-7.9736	-8.1757	9.8977e-02	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0085	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW000001	101.7691	102.5503	102.2183	1.7757e-01	1.0160e+00
113	VPW000002	119.5650	120.1510	119.8423	1.4276e-01	1.0831e+00
114	VPW000003	147.2581	147.8440	147.4496	1.3945e-01	1.1995e+00
115	VPW000004	104.9429	105.5288	105.1265	1.4979e-01	1.0266e+00
116	VPW000005	139.5545	140.3358	139.8983	1.9555e-01	1.1665e+00
117	VPW000006	146.2553	146.8412	146.5561	1.6370e-01	1.1955e+00
118	IPW000001	541.9255	549.7349	547.1968	1.9424e+00	9.1813e+00
119	IPW000002	1314.9707	1324.6870	1319.9261	2.2701e+00	1.3204e+01
120	IPW000003	1338.0748	1345.8749	1340.8052	2.2286e+00	1.3334e+01
121	IPW000004	382.9346	384.8877	383.5304	4.4435e-01	3.6305e+00
122	IPW000005	255.3925	257.3455	256.2031	3.6390e-01	2.8455e+00
123	IPW000006	268.0382	269.5031	268.6631	3.9508e-01	2.9163e+00
124	EMPTY	-0.0293	-0.0146	-0.0229	3.9766e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.6998e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0189	3.3656e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.1195e-03	0.0000e+00
128	IHT000001	132.0876	134.6266	133.2829	5.4196e-01	4.3112e+00
129	IHT000002	132.6022	134.7506	133.7154	4.8045e-01	4.3125e+00
130	IHT000003	131.4153	133.7590	132.6769	5.2824e-01	4.3093e+00
131	IHT000004	132.2792	134.6229	133.4862	5.6178e-01	4.3118e+00
132	IHT000005	129.8377	132.1815	130.9550	4.9291e-01	4.3041e+00
133	IHT000006	126.0930	128.2415	127.1164	4.6948e-01	4.2925e+00
134	IHT000007	130.5889	132.7374	131.6045	4.7842e-01	4.3060e+00
135	IHT000008	130.8105	132.7637	131.6308	4.6354e-01	4.3061e+00
136	IHT000009	131.5017	133.6501	132.5524	4.7986e-01	4.3089e+00
137	IHT000010	130.7167	132.6698	131.4745	4.5616e-01	4.3056e+00
138	IHT000011	134.9421	136.8953	135.8172	5.3414e-01	4.3191e+00
139	IHT000012	128.6433	130.7917	129.6747	5.2799e-01	4.3002e+00
140	IHT000013	92.2776	94.0354	93.1370	4.7842e-01	4.2045e+00
141	IHT000014	128.0236	130.3674	129.2736	5.4534e-01	4.2990e+00
142	IHT000015	96.1125	98.2610	97.0344	4.8974e-01	4.2133e+00
143	IHT000016	89.0437	91.1921	90.0945	4.8310e-01	4.1978e+00
144	IHT000017	105.2734	108.5938	106.4609	5.9822e-01	4.2360e+00
145	IHT000018	108.2219	110.5657	109.1789	5.3996e-01	4.2429e+00
146	IHT000019	103.7673	105.9157	104.7360	4.6347e-01	4.2317e+00
147	IHT000020	106.7909	108.9393	107.8221	4.4997e-01	4.2394e+00
148	IHT000021	-2.7606	-0.2216	-1.5810	5.3664e-01	4.1000e+00
149	IHT000022	92.9725	94.7303	93.9295	4.0864e-01	4.2062e+00
150	IHT000023	105.9946	107.5571	106.9790	3.9055e-01	4.2373e+00
151	IHT000024	71.6646	73.2271	72.4888	3.9516e-01	4.1636e+00
152	IHT000025	103.7748	105.3373	104.6342	3.9261e-01	4.2314e+00
153	IHT000026	105.0668	106.8247	106.0083	4.1702e-01	4.2348e+00
154	IHT000027	90.2457	92.0035	91.1011	4.5658e-01	4.2000e+00
155	IHT000028	91.9997	94.5388	93.1013	6.0972e-01	4.2044e+00

Test: May03_11

sum2

Date: Thu May 3 11:36:31 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	107.7975	106.6021	5.5333e-01	4.2363e+00
157	IHT000030	107.6698	110.4042	108.7362	5.8688e-01	4.2417e+00
158	IHT000031	106.7608	109.2999	107.7334	5.5872e-01	4.2392e+00
159	IHT000032	107.8238	110.5582	108.8159	5.8904e-01	4.2419e+00
160	IHT000033	107.6097	110.5394	108.7698	5.8715e-01	4.2418e+00
161	IHT000034	94.5801	96.3379	95.3926	4.5739e-01	4.2095e+00
162	IHT000035	124.5943	126.7428	125.7388	5.1450e-01	4.2885e+00
163	IHT000036	93.0025	94.7604	93.8736	4.3621e-01	4.2061e+00

Test: May03_11 dif Date: Thu May 3 11:36:31 1990 Page: 1

Velocity 1 = 0.025599 (ft/sec)

Velocity 2 = 0.000400 (ft/sec)

Pressure Drop = 0.035000 (psi)

Tsat in = 0.048920 (deg F) Tsat out = 0.146790 (deg F)

Phi inner = 0.415894 (kBtu/hr-ft2) Phi outer = 0.457001 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0554	0.0761
1	TRF000002	0.0509	0.0696
2	TFM000001	0.3544	0.4127
3	TIN000001	0.3765	0.4387
4	TRV000001	0.3327	0.3877
5	TSR000001	0.0470	0.0448
6	TAO020136	0.2955	0.2719
7	TAO050136	0.3793	0.3445
8	TAO070136	0.2240	0.1901
9	TAO080136	0.3609	0.3097
10	TAO090136	0.3087	0.2615
11	TAO100136	0.3753	0.3279
12	TAO105136	0.3266	0.2822
13	TAO110136	0.3067	0.2606
14	TAO115136	0.3680	0.3151
15	TAO120136	0.3709	0.3051
16	TAO125136	0.3009	0.3353
17	TAO130136	0.3742	0.3209
18	TAO120048	0.3324	0.2712
19	TAO130048	0.3692	0.3117
20	TAO120224	0.3370	0.2793
21	TAO130224	0.3808	0.3298
22	TAO120312	0.2965	0.2455
23	TAO130312	0.3285	0.2742
24	TRT020000	0.3834	0.3600
25	TRT070000	0.3531	0.3075
26	TRT100000	0.3325	0.2768
27	TRT120000	0.3578	0.3018
28	TRT125000	0.3227	0.2641
29	TRT130000	0.3567	0.2960
30	EMPTY	0.0780	0.1976
31	TAF050136	0.3477	0.3720
32	TAF070136	0.4003	0.4155
33	TAF080136	0.4127	0.3496
34	TAF090136	0.2127	0.2009
35	TAF100136	0.3768	0.3787
36	TAF105136	0.3650	0.3641
37	TAF110136	0.3279	0.3113
38	TAF115136	0.3541	0.3465
39	TAF120136	0.3554	0.3239
40	TAF125136	0.3439	0.3318
41	TAF130136	0.3739	0.3584
42	TAF120048	0.4183	0.3960
43	TAF130048	0.3653	0.3422
44	TAF120224	0.3668	0.3554
45	TAF130224	0.3933	0.3772

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1211
47	EMPTY	0.0505	0.1288
48	TAI130138	0.5117	0.4487
49	TAI130226	0.3831	0.3383
50	TAI130314	0.4500	0.3857
51	TAI130042	0.4417	0.3848
52	TRR130090	4.1436	3.7474
53	TSI000001	0.0409	0.0865
54	TSI000002	0.6081	0.4908
55	TSO000001	0.0194	0.0416
56	TSO000002	0.0281	0.0524
57	TAF020136	0.3142	0.3607
58	TAF120312	0.4155	0.3966
59	TAF130312	0.3562	0.3301
60	EMPTY	0.0076	0.7480
61	EMPTY	0.0074	0.7203
62	EMPTY	0.0073	0.7036
63	EMPTY	0.0086	0.8187
64	EMPTY	0.0043	0.7393
65	EMPTY	0.0042	0.6988
66	EMPTY	0.0046	0.7474
67	EMPTY	0.0017	0.2679
68	EMPTY	0.0042	0.6510
69	EMPTY	0.0020	0.3012
70	EMPTY	0.0023	0.3389
71	EMPTY	0.0041	0.5866
72	EMPTY	0.0040	0.5612
73	EMPTY	0.0014	0.1914
74	EMPTY	0.0021	0.2818
75	EMPTY	0.0027	0.3545
76	EMPTY	0.0010	0.1289
77	EMPTY	0.0024	0.3025
78	EMPTY	0.0017	0.2085
79	EMPTY	0.0046	0.5509
80	PAN020136	0.1999	0.3075
81	PAN050136	0.2258	0.1914
82	PAN070136	0.1556	0.1937
83	PAN080136	0.0626	0.1599
84	PAN090136	0.1099	0.2961
85	PAN100136	0.1968	0.4901
86	PAN105136	0.0214	0.1065
87	PAN110136	0.0550	0.2766
88	PAN115136	0.1725	0.7894
89	PAN120136	0.0260	0.1406
90	PAN125136	0.0504	0.2473
91	PAN130136	0.0595	0.3262
92	PAN120048	0.1159	0.3477
93	PAN130048	0.1251	0.2899
94	PAN120224	0.1404	0.3435
95	PAN130224	0.1129	0.2399
96	PAN120312	0.1953	0.5188
97	PAN130312	0.0854	0.2020
98	PAB000136	0.0330	0.0820
99	PAB100136	0.0595	0.2257
100	PAB125136	0.0605	0.2660

Test: May03_11

dif

Date: Thu May 3 11:36:31 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0098	0.0245
102	PRV000001	0.0220	0.1110
103	PSR000001	0.0366	0.1864
104	PFM000001	0.1995	0.1913
105	PAN000136	0.9704	0.1936
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.0833
108	EMPTY	0.1186	1.4720
109	EMPTY	0.0002	2.2988
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	57.1429
112	VPW000001	0.0547	0.0535
113	VPW000002	0.0586	0.0489
114	VPW000003	0.0586	0.0398
115	VPW000004	0.0742	0.0705
116	VPW000005	0.0586	0.0419
117	VPW000006	0.0039	0.0027
118	IPW000001	4.3734	0.7929
119	IPW000002	17.2102	1.3211
120	IPW000003	6.0842	0.4558
121	IPW000004	3.2422	0.8383
122	IPW000005	0.0488	0.0190
123	IPW000006	0.0586	0.0218
124	EMPTY	0.0010	4.5662
125	EMPTY	0.0009	6.5693
126	EMPTY	0.0012	6.7797
127	EMPTY	0.0002	1.2195
128	IHT000001	0.0118	0.0089
129	IHT000002	0.0469	0.0351
130	IHT000003	0.0703	0.0530
131	IHT000004	0.0469	0.0352
132	IHT000005	0.0430	0.0328
133	IHT000006	0.0860	0.0677
134	IHT000007	0.1601	0.1218
135	IHT000008	0.1523	0.1158
136	IHT000009	0.1133	0.0855
137	IHT000010	0.0195	0.0148
138	IHT000011	0.0429	0.0316
139	IHT000012	0.0821	0.0633
140	IHT000013	0.0274	0.0294
141	IHT000014	0.0977	0.0756
142	IHT000015	0.0820	0.0844
143	IHT000016	0.0625	0.0693
144	IHT000017	0.5782	0.5402
145	IHT000018	0.1055	0.0965
146	IHT000019	0.0430	0.0410
147	IHT000020	0.0860	0.0797
148	IHT000021	0.2344	17.4068
149	IHT000022	0.2383	0.2531
150	IHT000023	0.0156	0.0146
151	IHT000024	0.0196	0.0270
152	IHT000025	0.0039	0.0037
153	IHT000026	0.0391	0.0369
154	IHT000027	0.0820	0.0899
155	IHT000028	0.1953	0.2093

Test: May03_11 dif Date: Thu May 3 11:36:31 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0391	0.0367
157	IHT000030	0.0664	0.0610
158	IHT000031	0.0078	0.0072
159	IHT000032	0.0157	0.0144
160	IHT000033	0.0196	0.0180
161	IHT000034	0.0664	0.0696
162	IHT000035	0.0703	0.0559
163	IHT000036	0.1015	0.1080

Velocity 1 = 20.0041 (ft/sec) (+/- 1.7202 %)
 Velocity 2 = 13.4151 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 8.9844 (psi)
 Tsat in = 267.0910 (deg F) Tsat out = 252.4889 (deg F)
 Phi inner = 101.5205 (kBtu/hr-ft2) (+/- 1.4103 %)
 Phi outer = 101.8354 (kBtu/hr-ft2) (+/- 1.6163 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.7739	73.2000	73.0211	1.5734e-01	1.9000e+00
1	TRF000002	73.0083	73.4321	73.3262	1.1525e-01	1.9000e+00
2	TFM000001	84.6700	85.7200	85.1428	2.5554e-01	1.9002e+00
3	TIN000001	84.5743	85.8372	85.1153	2.2401e-01	1.9002e+00
4	TRV000001	84.5042	85.4473	85.0552	2.0055e-01	1.9002e+00
5	TSR000001	105.9221	106.7463	106.3034	2.1529e-01	1.9009e+00
6	TAO020136	112.9775	113.8011	113.4736	2.0452e-01	1.9013e+00
7	TAO050136	115.1963	116.1167	115.6037	1.8886e-01	1.9014e+00
8	TAO070136	121.1436	122.2698	121.8172	2.1413e-01	1.9018e+00
9	TAO080136	123.1801	123.9920	123.5676	1.8670e-01	1.9019e+00
10	TAO090136	124.9071	125.6196	125.3204	1.7616e-01	1.9021e+00
11	TAO100136	120.9352	121.6497	121.2678	1.6741e-01	1.9018e+00
12	TAO105136	122.2956	123.4195	122.7351	2.3462e-01	1.9019e+00
13	TAO110136	124.9116	125.8223	125.3027	1.7489e-01	1.9021e+00
14	TAO115136	123.8585	124.9822	124.3630	1.9957e-01	1.9020e+00
15	TAO120136	129.5039	130.1073	129.7049	1.4354e-01	1.9024e+00
16	TAO125136	124.2783	124.7878	124.5372	1.5700e-01	1.9020e+00
17	TAO130136	123.9048	124.4117	124.2348	1.4459e-01	1.9020e+00
18	TAO120048	131.0047	131.7142	131.3313	1.7169e-01	1.9025e+00
19	TAO130048	126.3633	127.0742	126.6784	1.8264e-01	1.9022e+00
20	TAO120224	128.6417	129.2509	128.9320	1.4658e-01	1.9023e+00
21	TAO130224	122.5457	123.1543	122.8233	1.3286e-01	1.9019e+00
22	TAO120312	129.1095	129.8208	129.4937	1.6709e-01	1.9024e+00
23	TAO130312	127.6406	128.2493	127.9677	1.4841e-01	1.9023e+00
24	TRT020000	110.4622	111.4948	110.9475	2.2777e-01	1.9011e+00
25	TRT070000	121.5678	122.2858	121.9957	1.8149e-01	1.9018e+00
26	TRT100000	127.9914	128.9044	128.4846	1.8889e-01	1.9023e+00
27	TRT120000	126.7398	127.3495	127.0506	1.4719e-01	1.9022e+00
28	TRT125000	130.9516	131.5576	131.2888	1.7856e-01	1.9025e+00
29	TRT130000	128.5010	129.0086	128.7347	1.5782e-01	1.9023e+00
30	EMPTY	39.1464	39.8352	39.5505	2.2512e-01	1.9011e+00
31	TAF050136	94.5341	95.4711	94.9820	1.8008e-01	1.9004e+00
32	TAF070136	98.1827	99.1158	98.7322	2.3436e-01	1.9006e+00
33	TAF080136	123.9601	124.8727	124.3196	2.6538e-01	1.9020e+00
34	TAF090136	107.8242	108.7524	108.3296	2.3492e-01	1.9010e+00
35	TAF100136	102.7249	103.5551	103.0385	1.8219e-01	1.9007e+00
36	TAF105136	103.3719	104.4013	104.0488	2.2115e-01	1.9008e+00
37	TAF110136	109.9702	110.5870	110.3051	1.7104e-01	1.9011e+00
38	TAF115136	105.9783	106.9073	106.4881	1.9050e-01	1.9009e+00
39	TAF120136	115.6260	116.2400	115.9144	1.6384e-01	1.9014e+00
40	TAF125136	107.8067	108.8328	108.3051	2.8340e-01	1.9010e+00
41	TAF130136	108.9451	109.4601	109.1866	1.2939e-01	1.9010e+00
42	TAF120048	110.4299	111.4664	110.8470	2.4896e-01	1.9011e+00
43	TAF130048	112.0567	112.7762	112.4538	1.5687e-01	1.9012e+00
44	TAF120224	107.3751	108.4075	107.8194	1.9930e-01	1.9010e+00
45	TAF130224	108.9094	109.6341	109.2925	2.0203e-01	1.9010e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0434	2.1288e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2337	1.2177e-01	1.9010e+00
48	TAI130138	120.8245	121.9489	121.4113	3.1430e-01	1.9018e+00
49	TAI130226	120.1533	121.0712	120.6124	2.3044e-01	1.9017e+00
50	TAI130314	124.1041	125.0233	124.5637	2.5548e-01	1.9020e+00
51	TAI130042	122.1015	122.9184	122.4915	1.7599e-01	1.9019e+00
52	TRR130090	99.4475	102.4494	100.8909	7.5524e-01	1.9006e+00
53	TSI000001	46.8286	47.6952	47.3378	1.9240e-01	1.9003e+00
54	TSI000002	113.6731	121.5420	117.5427	1.9480e+00	1.9015e+00
55	TSO000001	46.0616	47.0417	46.6258	2.1405e-01	1.9004e+00
56	TSO000002	53.5053	54.4754	54.0767	2.1242e-01	1.9002e+00
57	TAF020136	86.5323	87.9026	87.2682	2.7233e-01	1.9002e+00
58	TAF120312	109.4887	110.4160	110.0760	2.2908e-01	1.9011e+00
59	TAF130312	113.5390	114.2574	113.9352	1.4805e-01	1.9013e+00
60	EMPTY	1.1523	1.1572	1.1533	1.9730e-03	0.0000e+00
61	EMPTY	1.1621	1.1670	1.1636	2.2603e-03	0.0000e+00
62	EMPTY	1.1719	1.1768	1.1729	2.0432e-03	0.0000e+00
63	EMPTY	1.1816	1.1914	1.1854	2.5266e-03	0.0000e+00
64	EMPTY	0.6348	0.6445	0.6396	9.8648e-04	0.0000e+00
65	EMPTY	0.6592	0.6592	0.6592	0.0000e+00	0.0000e+00
66	EMPTY	0.6689	0.6738	0.6737	6.9053e-04	0.0000e+00
67	EMPTY	0.6885	0.6934	0.6888	1.1714e-03	0.0000e+00
68	EMPTY	0.6982	0.7031	0.7029	9.6655e-04	0.0000e+00
69	EMPTY	0.7178	0.7227	0.7180	9.6655e-04	0.0000e+00
70	EMPTY	0.7324	0.7324	0.7324	0.0000e+00	0.0000e+00
71	EMPTY	0.7520	0.7568	0.7556	2.1635e-03	0.0000e+00
72	EMPTY	0.7666	0.7715	0.7670	1.3381e-03	0.0000e+00
73	EMPTY	0.7813	0.7861	0.7860	6.9053e-04	0.0000e+00
74	EMPTY	0.7959	0.8008	0.7995	2.1635e-03	0.0000e+00
75	EMPTY	0.8105	0.8154	0.8152	9.6655e-04	0.0000e+00
76	EMPTY	0.8252	0.8301	0.8283	2.3675e-03	0.0000e+00
77	EMPTY	0.8447	0.8496	0.8450	1.1714e-03	0.0000e+00
78	EMPTY	0.8643	0.8691	0.8678	2.2146e-03	0.0000e+00
79	EMPTY	0.8887	0.8936	0.8889	9.6655e-04	0.0000e+00
80	PAN020136	31.8675	34.3852	33.1141	6.1183e-01	8.7393e-01
81	PAN050136	58.0939	59.7724	59.0491	3.9815e-01	1.6865e+00
82	PAN070136	38.3366	40.1677	39.3253	3.4396e-01	8.7554e-01
83	PAN080136	19.7896	20.8577	20.2853	2.3641e-01	8.7148e-01
84	PAN090136	17.8735	18.5602	18.1940	1.4043e-01	8.7119e-01
85	PAN100136	18.4061	19.0164	18.6823	1.7294e-01	8.7125e-01
86	PAN105136	9.6506	10.5661	10.1252	2.2085e-01	8.7037e-01
87	PAN110136	11.1485	12.2929	11.7726	2.5961e-01	8.7050e-01
88	PAN115136	8.9390	10.0834	9.4044	2.0112e-01	8.7032e-01
89	PAN120136	8.9815	9.2867	9.1295	9.3007e-02	8.7030e-01
90	PAN125136	9.8912	10.5016	10.2361	1.3101e-01	8.7038e-01
91	PAN130136	8.1187	8.6528	8.3720	1.3119e-01	8.7025e-01
92	PAN120048	15.5215	16.2082	15.9686	1.5260e-01	8.7092e-01
93	PAN130048	21.5650	22.4805	21.9282	1.9713e-01	8.7173e-01
94	PAN120224	18.4266	19.2659	18.7913	1.7862e-01	8.7127e-01
95	PAN130224	24.2455	24.8558	24.5095	1.5040e-01	8.7216e-01
96	PAN120312	18.2285	18.9151	18.5428	1.7346e-01	8.7123e-01
97	PAN130312	21.4594	22.1460	21.7889	1.4331e-01	8.7170e-01
98	PAB000136	39.5357	40.0393	39.8141	1.1619e-01	5.8848e-01
99	PAB100136	32.7960	33.0249	32.8976	6.2239e-02	5.8580e-01
100	PAB125136	31.0037	31.1410	31.0714	4.7374e-02	5.8518e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2059	39.9383	39.6404	1.9908e-01	7.5652e-01
102	PRV000001	19.7263	19.9704	19.8605	5.0842e-02	7.5164e-01
103	PSR000001	29.1680	29.4122	29.3072	6.5296e-02	7.5357e-01
104	PFM000001	60.8209	62.2858	61.6083	3.6151e-01	5.2318e-01
105	PAN000136	244.0411	252.7386	248.7378	1.9329e+00	4.9591e+00
106	PFM000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	-0.0049	0.0098	0.0048	1.5566e-03	0.0000e+00
108	EMPTY	-8.8867	-8.0225	-8.3304	1.9985e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.5738	103.5269	102.4487	3.7276e-01	1.0168e+00
113	VPW000002	119.1744	120.3463	119.8228	2.1771e-01	1.0830e+00
114	VPW000003	146.8675	148.0394	147.5082	2.8737e-01	1.1998e+00
115	VPW000004	104.3570	106.3101	105.2241	4.3613e-01	1.0270e+00
116	VPW000005	138.7733	141.1170	139.8163	5.4191e-01	1.1661e+00
117	VPW000006	145.8646	147.8178	146.7163	3.9609e-01	1.1963e+00
118	IPW000001	551.6872	567.3060	558.1298	3.9295e+00	9.2223e+00
119	IPW000002	1299.3206	1318.8333	1307.5551	4.1023e+00	1.3127e+01
120	IPW000003	1318.5748	1343.9249	1331.4059	5.7374e+00	1.3276e+01
121	IPW000004	377.0752	385.8643	382.3878	1.8734e+00	3.6229e+00
122	IPW000005	252.4632	257.8337	255.1387	1.2369e+00	2.8395e+00
123	IPW000006	266.0851	270.4796	268.3018	1.0542e+00	2.9142e+00
124	EMPTY	-0.0293	-0.0195	-0.0229	3.0309e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0154	2.8523e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	2.9938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0179	3.5030e-03	0.0000e+00
128	IHT000001	132.0876	135.4079	133.3649	6.6288e-01	4.3115e+00
129	IHT000002	132.6022	135.5319	133.7466	6.4599e-01	4.3126e+00
130	IHT000003	131.6106	134.9309	132.8019	6.8601e-01	4.3097e+00
131	IHT000004	132.4745	135.0135	133.5057	5.9587e-01	4.3119e+00
132	IHT000005	129.8377	132.7674	131.0409	6.0019e-01	4.3043e+00
133	IHT000006	125.8977	128.4368	127.1320	5.6695e-01	4.2926e+00
134	IHT000007	130.1983	132.9327	131.6514	5.4413e-01	4.3062e+00
135	IHT000008	130.6152	132.9590	131.6973	5.1480e-01	4.3063e+00
136	IHT000009	131.3064	134.0407	132.6305	5.8166e-01	4.3092e+00
137	IHT000010	130.7167	132.8651	131.5839	5.7610e-01	4.3060e+00
138	IHT000011	134.7468	137.0906	135.9266	6.0613e-01	4.3194e+00
139	IHT000012	128.6433	130.9871	129.7176	5.9222e-01	4.3003e+00
140	IHT000013	91.8870	94.2308	93.1644	5.9870e-01	4.2045e+00
141	IHT000014	128.0236	130.7580	129.2072	6.7475e-01	4.2988e+00
142	IHT000015	95.7219	98.6516	97.0539	5.7682e-01	4.2133e+00
143	IHT000016	88.8484	92.1687	90.2351	5.5137e-01	4.1981e+00
144	IHT000017	105.4688	108.5938	107.1602	8.3296e-01	4.2377e+00
145	IHT000018	108.0266	111.1516	109.3390	5.7323e-01	4.2433e+00
146	IHT000019	103.7673	105.7204	104.9313	5.1291e-01	4.2321e+00
147	IHT000020	106.7909	108.9393	107.9432	5.1788e-01	4.2397e+00
148	IHT000021	-2.9560	-0.2216	-1.3896	5.6150e-01	4.1000e+00
149	IHT000022	92.9725	95.3163	94.2342	5.3990e-01	4.2069e+00
150	IHT000023	105.7993	108.1430	107.0415	5.1108e-01	4.2374e+00
151	IHT000024	71.2740	73.4225	72.5435	4.8368e-01	4.1637e+00
152	IHT000025	103.3842	105.7279	104.7827	5.0279e-01	4.2318e+00
153	IHT000026	104.8715	107.2153	106.1216	5.2199e-01	4.2351e+00
154	IHT000027	89.8550	92.3941	91.3589	5.8427e-01	4.2006e+00
155	IHT000028	92.1950	94.9294	93.2966	6.2360e-01	4.2048e+00

Test: May03_12

sum1

Date: Thu May 3 11:55:55 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	107.9928	106.5943	5.5714e-01	4.2363e+00
157	IHT000030	107.8651	110.0135	108.7128	5.7129e-01	4.2417e+00
158	IHT000031	106.7608	108.9092	107.7139	5.2146e-01	4.2391e+00
159	IHT000032	107.8238	109.7769	108.8120	5.0749e-01	4.2419e+00
160	IHT000033	107.8050	109.7581	108.7738	5.2193e-01	4.2418e+00
161	IHT000034	94.3848	96.9238	95.3848	5.4909e-01	4.2095e+00
162	IHT000035	124.3990	127.3287	125.5787	5.8787e-01	4.2880e+00
163	IHT000036	92.8072	95.5416	93.8814	5.5559e-01	4.2061e+00

Velocity 1 = 19.9987 (ft/sec) (+/- 1.7203 %)
Velocity 2 = 13.4159 (ft/sec) (+/- 1.7032 %)
Pressure drop = 8.9503 (psi)
Tsats in = 266.7931 (deg F) Tsats out = 252.1862 (deg F)
Phi inner = 100.9888 (kBtu/hr-ft2) (+/- 1.4118 %)
Phi outer = 101.6589 (kBtu/hr-ft2) (+/- 1.6165 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.7739	73.4130	73.0850	1.5645e-01	1.9000e+00
1	TRF000002	73.0083	73.6439	73.3812	1.3908e-01	1.9000e+00
2	TFM000001	85.4055	86.3494	85.8182	1.9932e-01	1.9002e+00
3	TIN000001	85.4164	86.0477	85.8350	1.6531e-01	1.9002e+00
4	TRV000001	85.4461	86.1795	85.7709	2.0548e-01	1.9002e+00
5	TSR000001	105.6132	107.2604	106.3284	4.2627e-01	1.9009e+00
6	TAO020136	113.4921	114.9327	114.0705	2.8109e-01	1.9013e+00
7	TAO050136	115.8103	116.5244	116.2037	1.6523e-01	1.9014e+00
8	TAO070136	121.9630	122.7814	122.3949	1.9754e-01	1.9018e+00
9	TAO080136	123.7880	124.4993	124.1797	1.9037e-01	1.9020e+00
10	TAO090136	125.4152	126.6351	125.8935	2.3265e-01	1.9021e+00
11	TAO100136	121.5471	122.3632	121.9205	1.8398e-01	1.9018e+00
12	TAO105136	123.0111	123.9302	123.4255	2.0667e-01	1.9019e+00
13	TAO110136	125.5163	126.3273	125.9845	1.8627e-01	1.9021e+00
14	TAO115136	124.4716	125.4931	124.9762	2.7405e-01	1.9020e+00
15	TAO120136	129.7051	130.6133	130.3370	1.7188e-01	1.9025e+00
16	TAO125136	124.7872	125.7024	125.1920	1.8440e-01	1.9021e+00
17	TAO130136	124.4083	125.2138	124.8656	1.7945e-01	1.9020e+00
18	TAO120048	131.4097	132.2207	131.9184	1.8135e-01	1.9026e+00
19	TAO130048	126.9711	127.5812	127.3025	1.6256e-01	1.9022e+00
20	TAO120224	129.1487	129.9613	129.4799	1.9543e-01	1.9024e+00
21	TAO130224	123.0499	123.6609	123.4182	1.6546e-01	1.9019e+00
22	TAO120312	129.7189	130.4299	130.0705	1.5518e-01	1.9024e+00
23	TAO130312	128.2485	128.8582	128.5757	1.6054e-01	1.9023e+00
24	TRT020000	111.0816	112.1142	111.6332	2.5838e-01	1.9012e+00
25	TRT070000	122.0809	123.0045	122.5635	1.8775e-01	1.9019e+00
26	TRT100000	128.8017	129.4112	129.1328	1.7715e-01	1.9024e+00
27	TRT120000	127.2469	127.9584	127.6719	1.8777e-01	1.9022e+00
28	TRT125000	131.5554	132.3623	131.9009	2.0789e-01	1.9026e+00
29	TRT130000	129.0077	129.7169	129.3501	1.6504e-01	1.9024e+00
30	EMPTY	39.1464	39.8352	39.5184	2.3140e-01	1.9011e+00
31	TAF050136	95.2624	96.1983	95.6889	1.8827e-01	1.9004e+00
32	TAF070136	98.8034	99.8397	99.4191	2.4796e-01	1.9006e+00
33	TAF080136	124.3644	125.5785	124.9588	2.6302e-01	1.9020e+00
34	TAF090136	108.3393	109.4735	108.8859	2.6356e-01	1.9010e+00
35	TAF100136	103.3476	104.0740	103.7482	1.8977e-01	1.9008e+00
36	TAF105136	104.2955	105.1202	104.6940	2.0774e-01	1.9008e+00
37	TAF110136	110.5855	111.4078	111.0114	1.7626e-01	1.9011e+00
38	TAF115136	106.5968	107.5258	107.1359	2.1991e-01	1.9009e+00
39	TAF120136	116.2390	116.9556	116.6133	1.5966e-01	1.9015e+00
40	TAF125136	108.3179	109.4465	108.8791	2.9399e-01	1.9010e+00
41	TAF130136	109.3567	110.1805	109.8738	1.7961e-01	1.9011e+00
42	TAF120048	110.9496	111.9844	111.4855	2.3634e-01	1.9012e+00
43	TAF130048	112.6736	113.5978	113.0659	2.0094e-01	1.9012e+00
44	TAF120224	107.9946	108.8209	108.4552	2.0980e-01	1.9010e+00
45	TAF130224	109.5317	110.3589	109.9309	1.8923e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0020	1.8864e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2291	1.2062e-01	1.9010e+00
48	TAI130138	121.5402	122.7657	122.1509	2.4978e-01	1.9018e+00
49	TAI130226	120.7641	121.7834	121.2396	1.9918e-01	1.9018e+00
50	TAI130314	124.5128	125.7377	125.1967	2.7222e-01	1.9021e+00
51	TAI130042	122.6118	123.5307	123.1490	2.0908e-01	1.9019e+00
52	TRR130090	97.9955	105.2379	101.7552	1.9435e+00	1.9007e+00
53	TSI000001	46.8286	47.5872	47.2083	1.7543e-01	1.9003e+00
54	TSI000002	113.7769	120.9306	117.1631	1.6584e+00	1.9015e+00
55	TSO000001	45.8435	46.9320	46.3989	2.2678e-01	1.9004e+00
56	TSO000002	53.5053	54.2596	53.8873	2.0092e-01	1.9002e+00
57	TAF020136	87.3764	88.2196	87.9007	2.3543e-01	1.9002e+00
58	TAF120312	110.3121	111.2388	110.7552	2.5317e-01	1.9011e+00
59	TAF130312	114.1536	114.9733	114.6195	1.8668e-01	1.9013e+00
60	EMPTY	1.1621	1.1719	1.1679	2.1364e-03	0.0000e+00
61	EMPTY	1.1719	1.1816	1.1774	2.2080e-03	0.0000e+00
62	EMPTY	1.1816	1.1914	1.1867	2.6025e-03	0.0000e+00
63	EMPTY	1.1914	1.2012	1.1987	2.8334e-03	0.0000e+00
64	EMPTY	0.6445	0.6494	0.6463	2.3675e-03	0.0000e+00
65	EMPTY	0.6641	0.6738	0.6645	1.6624e-03	0.0000e+00
66	EMPTY	0.6787	0.6836	0.6791	1.3381e-03	0.0000e+00
67	EMPTY	0.6934	0.6982	0.6958	2.4662e-03	0.0000e+00
68	EMPTY	0.7080	0.7080	0.7080	0.0000e+00	0.0000e+00
69	EMPTY	0.7227	0.7275	0.7237	2.0432e-03	0.0000e+00
70	EMPTY	0.7373	0.7422	0.7384	2.0432e-03	0.0000e+00
71	EMPTY	0.7568	0.7617	0.7615	9.6655e-04	0.0000e+00
72	EMPTY	0.7715	0.7764	0.7725	1.9730e-03	0.0000e+00
73	EMPTY	0.7861	0.7910	0.7909	6.9053e-04	0.0000e+00
74	EMPTY	0.7959	0.8057	0.8053	1.6624e-03	0.0000e+00
75	EMPTY	0.8154	0.8203	0.8202	6.9053e-04	0.0000e+00
76	EMPTY	0.8301	0.8398	0.8341	2.3531e-03	0.0000e+00
77	EMPTY	0.8496	0.8545	0.8518	2.4484e-03	0.0000e+00
78	EMPTY	0.8691	0.8740	0.8731	1.8950e-03	0.0000e+00
79	EMPTY	0.8936	0.8984	0.8938	9.6655e-04	0.0000e+00
80	PAN020136	31.8675	34.6903	33.3094	6.2254e-01	8.7398e-01
81	PAN050136	57.7887	59.4672	58.7409	3.9546e-01	1.6864e+00
82	PAN070136	38.1840	39.8625	39.1773	3.3469e-01	8.7550e-01
83	PAN080136	19.8659	20.7051	20.2656	2.0365e-01	8.7147e-01
84	PAN090136	17.4920	18.0261	17.7789	1.3835e-01	8.7113e-01
85	PAN100136	18.1772	19.0164	18.6334	1.8008e-01	8.7125e-01
86	PAN105136	9.8795	10.6424	10.2365	1.9031e-01	8.7038e-01
87	PAN110136	11.7589	12.5218	12.1327	1.6761e-01	8.7053e-01
88	PAN115136	8.4812	9.1679	8.7635	1.6761e-01	8.7028e-01
89	PAN120136	8.9052	9.2867	9.1066	1.0312e-01	8.7030e-01
90	PAN125136	10.0438	10.5779	10.2697	1.0895e-01	8.7038e-01
91	PAN130136	7.9661	8.5765	8.2682	1.3522e-01	8.7025e-01
92	PAN120048	15.5215	16.1319	15.7794	1.5482e-01	8.7089e-01
93	PAN130048	21.9465	22.7857	22.3829	1.8943e-01	8.7180e-01
94	PAN120224	18.1215	18.8081	18.4892	1.6363e-01	8.7123e-01
95	PAN130224	24.2455	24.7032	24.5156	1.3188e-01	8.7216e-01
96	PAN120312	18.0759	18.8388	18.4802	1.8319e-01	8.7123e-01
97	PAN130312	21.2305	22.0697	21.6837	1.6123e-01	8.7169e-01
98	PAB000136	39.3068	39.8562	39.6154	1.0165e-01	5.8839e-01
99	PAB100136	32.6129	32.7960	32.7017	4.7527e-02	5.8573e-01
100	PAB125136	30.8663	31.0037	30.9103	4.1318e-02	5.8513e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.0838	39.9383	39.4451	2.2998e-01	7.5646e-01
102	PRV0000001	19.8484	19.9704	19.8605	3.6993e-02	7.5164e-01
103	PSR0000001	29.0459	29.1680	29.1412	5.1081e-02	7.5353e-01
104	PFM0000001	60.9125	62.3773	61.5680	3.4868e-01	5.2316e-01
105	PAN000136	242.2101	252.7386	247.7948	1.9133e+00	4.9588e+00
106	PFM0000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0057	1.8082e-03	0.0000e+00
108	EMPTY	-8.9551	-8.1006	-8.4324	2.0813e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0056	1.7115e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	102.1597	102.9410	102.5269	2.1842e-01	1.0171e+00
113	VPW0000002	119.3697	120.1510	119.8228	1.7840e-01	1.0830e+00
114	VPW0000003	146.8675	147.8440	147.5355	2.4031e-01	1.1999e+00
115	VPW0000004	104.5523	105.9195	105.3335	2.5875e-01	1.0274e+00
116	VPW0000005	139.3592	140.7264	140.0116	3.0209e-01	1.1670e+00
117	VPW0000006	146.4506	147.2318	146.8452	2.0309e-01	1.1968e+00
118	IPW0000001	557.5443	571.2106	565.2366	3.0402e+00	9.2493e+00
119	IPW0000002	1285.6616	1305.1743	1293.8176	4.1848e+00	1.3042e+01
120	IPW0000003	1316.6249	1330.2749	1323.0989	3.5986e+00	1.3224e+01
121	IPW0000004	381.9580	386.3526	384.6437	1.1930e+00	3.6378e+00
122	IPW0000005	253.9278	257.3455	255.4414	7.5282e-01	2.8412e+00
123	IPW0000006	266.0851	269.5031	267.7549	6.1677e-01	2.9111e+00
124	EMPTY	-0.0293	-0.0146	-0.0232	4.7882e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0152	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0190	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.4527e-03	0.0000e+00
128	IHT0000001	132.2829	135.2126	133.3649	6.3037e-01	4.3115e+00
129	IHT0000002	132.7975	135.3365	133.7935	6.5939e-01	4.3128e+00
130	IHT0000003	131.6106	134.1496	132.8332	6.4333e-01	4.3098e+00
131	IHT0000004	132.4745	134.8182	133.5917	6.3508e-01	4.3122e+00
132	IHT0000005	130.0330	132.5721	131.1776	6.2016e-01	4.3047e+00
133	IHT0000006	125.8977	128.6321	127.2961	6.4399e-01	4.2931e+00
134	IHT0000007	130.3936	133.3233	131.8311	6.5645e-01	4.3067e+00
135	IHT0000008	130.4199	133.3496	131.7988	6.6779e-01	4.3066e+00
136	IHT0000009	131.5017	134.2360	132.7516	6.3748e-01	4.3096e+00
137	IHT0000010	130.3260	132.8651	131.6073	5.5686e-01	4.3060e+00
138	IHT0000011	134.5515	137.0906	135.9422	5.4625e-01	4.3195e+00
139	IHT0000012	128.4480	130.9871	129.7840	5.3140e-01	4.3005e+00
140	IHT0000013	92.2776	94.4261	93.2386	5.1273e-01	4.2047e+00
141	IHT0000014	128.0236	130.5627	129.3439	5.2580e-01	4.2992e+00
142	IHT0000015	96.3079	98.2610	97.1789	5.2824e-01	4.2136e+00
143	IHT0000016	89.2390	91.5828	90.3093	4.8043e-01	4.1983e+00
144	IHT0000017	105.4668	108.9844	107.1055	9.2109e-01	4.2376e+00
145	IHT0000018	108.4172	110.5657	109.3781	5.0353e-01	4.2434e+00
146	IHT0000019	103.3767	106.1110	104.8493	5.6388e-01	4.2319e+00
147	IHT0000020	106.4002	109.1346	107.7792	5.2706e-01	4.2393e+00
148	IHT0000021	-2.5653	-0.0263	-1.5536	6.5160e-01	4.1000e+00
149	IHT0000022	93.1678	95.3163	94.1405	4.9045e-01	4.2067e+00
150	IHT0000023	106.1899	108.3383	106.9712	5.0223e-01	4.2372e+00
151	IHT0000024	71.6646	73.6178	72.4341	4.6255e-01	4.1635e+00
152	IHT0000025	103.7748	106.1185	104.7085	5.0268e-01	4.2316e+00
153	IHT0000026	105.0668	107.2153	106.0395	5.0299e-01	4.2349e+00
154	IHT0000027	90.2457	92.3941	91.3355	5.2213e-01	4.2005e+00
155	IHT0000028	91.9997	94.9294	93.3825	6.4336e-01	4.2050e+00

Test: May03_12

sum2

Date: Thu May 3 11:55:55 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	108.1881	106.6216	6.1951e-01	4.2364e+00
157	IHT000030	107.4745	110.2088	108.6346	6.1689e-01	4.2415e+00
158	IHT000031	106.5655	109.2999	107.6475	6.2541e-01	4.2390e+00
159	IHT000032	107.6285	110.5582	108.8003	6.3381e-01	4.2419e+00
160	IHT000033	107.4144	110.3440	108.7347	6.4060e-01	4.2417e+00
161	IHT000034	94.3848	97.1191	95.5098	5.4613e-01	4.2098e+00
162	IHT000035	124.3990	126.9381	125.7349	5.7367e-01	4.2885e+00
163	IHT000036	93.0025	95.5416	94.0259	5.3896e-01	4.2064e+00

Test: May03_12 dif Date: Thu May 3 11:55:55 1990 Page: 1

Velocity 1 = 0.005402 (ft/sec)

Velocity 2 = 0.000800 (ft/sec)

Pressure Drop = 0.034100 (psi)

Tsat in = 0.297913 (deg F) Tsat out = 0.302704 (deg F)

Phi inner = 0.531700 (kBtu/hr-ft2) Phi outer = 0.176506 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0639	0.0875
1	TRF000002	0.0550	0.0750
2	TFM000001	0.6754	0.7933
3	TIN000001	0.7197	0.8456
4	TRV000001	0.7157	0.8415
5	TSR000001	0.0250	0.0235
6	TAO020136	0.5969	0.5260
7	TAO050136	0.6000	0.5190
8	TAO070136	0.5777	0.4742
9	TAO080136	0.6121	0.4954
10	TAO090136	0.5731	0.4573
11	TAO100136	0.6527	0.5382
12	TAO105136	0.6904	0.5625
13	TAO110136	0.6818	0.5441
14	TAO115136	0.6132	0.4931
15	TAO120136	0.6321	0.4873
16	TAO125136	0.6548	0.5258
17	TAO130136	0.6308	0.5077
18	TAO120048	0.5871	0.4470
19	TAO130048	0.6241	0.4927
20	TAO120224	0.5479	0.4250
21	TAO130224	0.5949	0.4843
22	TAO120312	0.5768	0.4454
23	TAO130312	0.6080	0.4751
24	TRT020000	0.6857	0.6180
25	TRT070000	0.5668	0.4646
26	TRT100000	0.6482	0.5045
27	TRT120000	0.6213	0.4890
28	TRT125000	0.6121	0.4662
29	TRT130000	0.6154	0.4780
30	EMPTY	0.0321	0.0812
31	TAF050136	0.7069	0.7442
32	TAF070136	0.6869	0.6957
33	TAF080136	0.6392	0.5142
34	TAF090136	0.5563	0.5135
35	TAF100136	0.7097	0.6888
36	TAF105136	0.6452	0.6201
37	TAF110136	0.7063	0.6403
38	TAF115136	0.6478	0.6083
39	TAF120136	0.6989	0.6029
40	TAF125136	0.5740	0.5300
41	TAF130136	0.6872	0.6294
42	TAF120048	0.6385	0.5760
43	TAF130048	0.6121	0.5443
44	TAF120224	0.6358	0.5897
45	TAF130224	0.6384	0.5841

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1088
47	EMPTY	0.0046	0.0117
48	TAI130138	0.7396	0.6092
49	TAI130226	0.6272	0.5200
50	TAI130314	0.6330	0.5082
51	TAI130042	0.6575	0.5368
52	TRR130090	0.8643	0.8567
53	TSI000001	0.1295	0.2736
54	TSI000002	0.3796	0.3229
55	TSO000001	0.2269	0.4866
56	TSO000002	0.1894	0.3502
57	TAF020136	0.6325	0.7248
58	TAF120312	0.6792	0.6170
59	TAF130312	0.6843	0.6006
60	EMPTY	0.0146	1.2659
61	EMPTY	0.0138	1.1860
62	EMPTY	0.0138	1.1766
63	EMPTY	0.0133	1.1220
64	EMPTY	0.0067	1.0475
65	EMPTY	0.0053	0.8040
66	EMPTY	0.0054	0.8015
67	EMPTY	0.0070	1.0163
68	EMPTY	0.0051	0.7256
69	EMPTY	0.0057	0.7939
70	EMPTY	0.0060	0.8192
71	EMPTY	0.0059	0.7808
72	EMPTY	0.0055	0.7171
73	EMPTY	0.0049	0.6234
74	EMPTY	0.0050	0.7255
75	EMPTY	0.0050	0.6134
76	EMPTY	0.0058	0.7002
77	EMPTY	0.0068	0.8047
78	EMPTY	0.0053	0.6107
79	EMPTY	0.0049	0.5512
80	PAN020136	0.1953	0.5898
81	PAN050136	0.3082	0.5219
82	PAN070136	0.1480	0.3763
83	PAN080136	0.0199	0.0981
84	PAN090136	0.4151	2.2815
85	PAN100136	0.0489	0.2617
86	PAN105136	0.1113	1.0992
87	PAN110136	0.3601	3.0588
88	PAN115136	0.6409	6.8149
89	PAN120136	0.0229	0.2508
90	PAN125136	0.0336	0.3282
91	PAN130136	0.1038	1.2398
92	PAN120048	0.1892	1.1848
93	PAN130048	0.4547	2.0736
94	PAN120224	0.3021	1.6077
95	PAN130224	0.0061	0.0249
96	PAN120312	0.0626	0.3376
97	PAN130312	0.1052	0.4828
98	PAB000136	0.1987	0.4991
99	PAB100136	0.1959	0.5955
100	PAB125136	0.1611	0.5185

Test: May03_12

dif

Date: Thu May 3 11:55:55 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1953	0.4927
102	PRV000001	0.0000	0.0000
103	PSR000001	0.1660	0.5664
104	PFM000001	0.0403	0.0654
105	PAN000136	0.9430	0.3791
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0009	18.7500
108	EMPTY	0.1020	1.2244
109	EMPTY	0.0005	9.8039
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0782	0.0763
113	VPW000002	0.0000	0.0000
114	VPW000003	0.0273	0.0185
115	VPW000004	0.1094	0.1040
116	VPW000005	0.1953	0.1397
117	VPW000006	0.1289	0.0879
118	IPW000001	7.1068	1.2733
119	IPW000002	13.7374	1.0506
120	IPW000003	8.3070	0.6239
121	IPW000004	2.2559	0.5900
122	IPW000005	0.3027	0.1186
123	IPW000006	0.5469	0.2038
124	EMPTY	0.0003	1.3100
125	EMPTY	0.0002	1.2987
126	EMPTY	0.0017	9.8266
127	EMPTY	0.0008	4.4693
128	IHT000001	0.0000	0.0000
129	IHT000002	0.0469	0.0351
130	IHT000003	0.0313	0.0236
131	IHT000004	0.0860	0.0644
132	IHT000005	0.1367	0.1043
133	IHT000006	0.1641	0.1291
134	IHT000007	0.1797	0.1365
135	IHT000008	0.1015	0.0771
136	IHT000009	0.1211	0.0913
137	IHT000010	0.0234	0.0178
138	IHT000011	0.0156	0.0115
139	IHT000012	0.0664	0.0512
140	IHT000013	0.0742	0.0796
141	IHT000014	0.1367	0.1058
142	IHT000015	0.1250	0.1288
143	IHT000016	0.0742	0.0822
144	IHT000017	0.0547	0.0510
145	IHT000018	0.0391	0.0358
146	IHT000019	0.0820	0.0781
147	IHT000020	0.1640	0.1519
148	IHT000021	0.1640	11.8020
149	IHT000022	0.0937	0.0994
150	IHT000023	0.0703	0.0657
151	IHT000024	0.1094	0.1508
152	IHT000025	0.0742	0.0708
153	IHT000026	0.0821	0.0774
154	IHT000027	0.0234	0.0256
155	IHT000028	0.0859	0.0921

Test: May03_12 dif Date: Thu May 3 11:55:55 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0273	0.0256
157	IHT000030	0.0782	0.0719
158	IHT000031	0.0664	0.0616
159	IHT000032	0.0117	0.0107
160	IHT000033	0.0391	0.0359
161	IHT000034	0.1250	0.1310
162	IHT000035	0.1562	0.1244
163	IHT000036	0.1445	0.1539

Velocity 1 = 14.0531 (ft/sec) (+/- 1.8644 %)
Velocity 2 = 13.4155 (ft/sec) (+/- 1.7032 %)
Pressure drop = 2.0548 (psi)
Tsat in = 267.1143 (deg F) Tsat out = 264.0808 (deg F)
Phi inner = 101.0201 (kBtu/hr-ft2) (+/- 1.4117 %)
Phi outer = 101.6716 (kBtu/hr-ft2) (+/- 1.6168 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.9870	73.6260	73.3150	1.6222e-01	1.9000e+00
1	TRF000002	73.4321	73.8557	73.5973	1.2320e-01	1.9000e+00
2	TFM000001	84.9860	85.8255	85.4520	1.8018e-01	1.9002e+00
3	TIN000001	85.2058	85.7321	85.4667	1.4915e-01	1.9002e+00
4	TRV000001	84.9246	85.6576	85.2430	1.8085e-01	1.9002e+00
5	TSR000001	107.2610	108.4944	107.9920	3.0844e-01	1.9010e+00
6	TAO020136	122.6215	123.5414	123.1610	2.2808e-01	1.9019e+00
7	TAO050136	126.0705	126.8810	126.4517	1.8280e-01	1.9021e+00
8	TAO070136	130.0328	131.0502	130.5740	2.3021e-01	1.9025e+00
9	TAO080136	136.6895	137.5943	137.0675	1.7899e-01	1.9030e+00
10	TAO090136	138.7597	139.4647	139.1543	1.6626e-01	1.9032e+00
11	TAO100136	134.6362	135.4440	135.0800	1.8925e-01	1.9029e+00
12	TAO105136	136.4248	137.2334	136.7845	2.0643e-01	1.9030e+00
13	TAO110136	139.8511	140.5522	140.1993	1.7424e-01	1.9033e+00
14	TAO115136	138.8087	139.9202	139.3866	2.2457e-01	1.9032e+00
15	TAO120136	145.0081	145.7071	145.3752	1.4046e-01	1.9038e+00
16	TAO125136	139.3446	140.2498	139.7912	1.8421e-01	1.9033e+00
17	TAO130136	138.3782	139.1752	138.8526	1.6242e-01	1.9032e+00
18	TAO120048	147.6102	148.3109	148.0503	1.4995e-01	1.9041e+00
19	TAO130048	142.1759	142.8783	142.5448	1.4111e-01	1.9035e+00
20	TAO120224	144.3817	145.1842	144.7790	1.8011e-01	1.9038e+00
21	TAO130224	136.8294	137.5327	137.1907	1.5843e-01	1.9030e+00
22	TAO120312	145.9673	146.5697	146.2487	1.7553e-01	1.9039e+00
23	TAO130312	143.4564	144.3587	143.7778	1.5034e-01	1.9037e+00
24	TRT020000	119.5244	120.4466	119.9179	2.0117e-01	1.9017e+00
25	TRT070000	135.3721	136.1844	135.7008	1.7214e-01	1.9029e+00
26	TRT100000	144.2035	144.9058	144.5727	2.0090e-01	1.9037e+00
27	TRT120000	143.4913	144.0939	143.8049	1.6682e-01	1.9037e+00
28	TRT125000	148.4548	149.2499	148.8748	1.8049e-01	1.9042e+00
29	TRT130000	144.4997	145.0018	144.7608	1.3125e-01	1.9038e+00
30	EMPTY	39.1464	40.0646	39.5046	2.0825e-01	1.9011e+00
31	TAF050136	98.9981	99.7253	99.3555	2.1085e-01	1.9006e+00
32	TAF070136	104.0684	104.9977	104.5022	1.9315e-01	1.9008e+00
33	TAF080136	136.5390	137.7419	137.0372	2.6545e-01	1.9030e+00
34	TAF090136	113.4805	114.6096	114.0264	3.0568e-01	1.9013e+00
35	TAF100136	110.6949	111.5199	111.0496	1.8065e-01	1.9011e+00
36	TAF105136	111.9736	112.7921	112.3753	2.0332e-01	1.9012e+00
37	TAF110136	120.6049	121.3192	121.0616	1.6894e-01	1.9018e+00
38	TAF115136	115.4375	116.2578	115.8311	2.2812e-01	1.9014e+00
39	TAF120136	128.2369	128.9474	128.5861	1.4934e-01	1.9023e+00
40	TAF125136	117.8128	118.9315	118.4076	2.5202e-01	1.9016e+00
41	TAF130136	119.3989	120.1144	119.6856	1.6125e-01	1.9017e+00
42	TAF120048	121.0726	122.3050	121.7675	2.5711e-01	1.9018e+00
43	TAF130048	123.9204	124.6337	124.2707	2.0075e-01	1.9020e+00
44	TAF120224	117.3533	118.0708	117.7754	1.9707e-01	1.9015e+00
45	TAF130224	119.5490	120.2671	119.9021	1.5120e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0572	2.1191e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2980	1.0988e-01	1.9010e+00
48	TAI130138	135.7650	136.8771	136.3070	3.1279e-01	1.9030e+00
49	TAI130226	135.0366	136.0444	135.4765	1.9511e-01	1.9029e+00
50	TAI130314	139.6444	140.8558	140.2503	2.7957e-01	1.9033e+00
51	TAI130042	137.5347	138.3420	137.9464	1.9219e-01	1.9031e+00
52	TRR130090	101.6232	106.0650	103.8680	1.1681e+00	1.9008e+00
53	TSI000001	47.1540	47.6967	47.4102	1.9794e-01	1.9003e+00
54	TSI000002	117.1544	123.0704	121.5865	1.3068e+00	1.9018e+00
55	TSO000001	45.9517	47.0409	46.5267	2.0877e-01	1.9004e+00
56	TSO000002	54.6901	55.4448	55.1385	1.8763e-01	1.9001e+00
57	TAF020136	88.7452	89.6925	89.0695	2.0147e-01	1.9002e+00
58	TAF120312	120.6638	121.6845	121.1783	2.4222e-01	1.9018e+00
59	TAF130312	126.2829	127.1970	126.5760	2.1481e-01	1.9022e+00
60	EMPTY	1.4404	1.4502	1.4465	2.3261e-03	0.0000e+00
61	EMPTY	1.4502	1.4600	1.4549	1.6972e-03	0.0000e+00
62	EMPTY	1.4600	1.4648	1.4625	2.4642e-03	0.0000e+00
63	EMPTY	1.4697	1.4746	1.4733	2.1635e-03	0.0000e+00
64	EMPTY	0.7617	0.7666	0.7661	1.4797e-03	0.0000e+00
65	EMPTY	0.7813	0.7861	0.7842	2.4164e-03	0.0000e+00
66	EMPTY	0.7959	0.8008	0.7970	2.0432e-03	0.0000e+00
67	EMPTY	0.8105	0.8154	0.8143	2.1065e-03	0.0000e+00
68	EMPTY	0.8203	0.8252	0.8251	6.9053e-04	0.0000e+00
69	EMPTY	0.8398	0.8447	0.8408	1.9730e-03	0.0000e+00
70	EMPTY	0.8545	0.8594	0.8546	6.9053e-04	0.0000e+00
71	EMPTY	0.8740	0.8789	0.8757	2.3365e-03	0.0000e+00
72	EMPTY	0.8838	0.8887	0.8886	6.9053e-04	0.0000e+00
73	EMPTY	0.9033	0.9082	0.9034	6.9053e-04	0.0000e+00
74	EMPTY	0.9180	0.9229	0.9181	6.9053e-04	0.0000e+00
75	EMPTY	0.9277	0.9375	0.9326	9.8648e-04	0.0000e+00
76	EMPTY	0.9424	0.9473	0.9466	1.7115e-03	0.0000e+00
77	EMPTY	0.9619	0.9668	0.9621	9.6655e-04	0.0000e+00
78	EMPTY	0.9766	0.9863	0.9829	2.4662e-03	0.0000e+00
79	EMPTY	1.0010	1.0059	1.0057	9.6655e-04	0.0000e+00
80	PAN020136	8.5978	9.8948	9.1975	3.0789e-01	8.7030e-01
81	PAN050136	12.7753	14.3012	13.4253	3.0643e-01	1.6803e+00
82	PAN070136	8.6583	9.4212	8.9985	1.6616e-01	8.7029e-01
83	PAN080136	3.9967	4.6834	4.3523	1.3491e-01	8.7007e-01
84	PAN090136	3.6828	4.1406	3.9148	1.0220e-01	8.7006e-01
85	PAN100136	4.1391	4.4443	4.2887	9.8648e-02	8.7007e-01
86	PAN105136	1.1057	1.8686	1.4597	1.6001e-01	8.7001e-01
87	PAN110136	3.4428	3.9769	3.7022	1.4541e-01	8.7005e-01
88	PAN115136	1.2333	1.7674	1.5156	1.1248e-01	8.7001e-01
89	PAN120136	1.7336	2.1914	1.9411	1.0112e-01	8.7001e-01
90	PAN125136	1.9567	2.3381	2.1810	7.2967e-02	8.7002e-01
91	PAN130136	1.4811	1.9389	1.6993	1.1840e-01	8.7001e-01
92	PAN120048	2.0175	2.5516	2.2601	1.2775e-01	8.7002e-01
93	PAN130048	5.7722	6.2299	6.0239	1.1560e-01	8.7013e-01
94	PAN120224	3.6256	4.1597	3.8804	9.7008e-02	8.7005e-01
95	PAN130224	6.3164	6.7742	6.5544	9.7045e-02	8.7015e-01
96	PAN120312	3.5037	3.9615	3.8059	1.1111e-01	8.7005e-01
97	PAN130312	5.2087	5.6665	5.4010	1.1141e-01	8.7010e-01
98	PAB000136	39.6730	39.9935	39.8296	7.6872e-02	5.8849e-01
99	PAB100136	38.1061	38.2892	38.1720	4.9940e-02	5.8780e-01
100	PAB125136	37.7786	37.9159	37.8472	4.1617e-02	5.8767e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.3279	39.9383	39.6868	1.5677e-01	7.5653e-01
102	PRV0000001	19.7263	19.9704	19.7849	6.6358e-02	7.5163e-01
103	PSR0000001	37.1026	37.2247	37.1465	5.9189e-02	7.5573e-01
104	PFM0000001	29.6930	30.7916	30.2826	2.3986e-01	5.0570e-01
105	PAN000136	53.6114	60.9356	56.8890	1.3853e+00	4.9221e+00
106	PFM0000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-8.8867	-8.1104	-8.5258	1.8955e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0052	1.5314e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	102.3550	103.3316	102.5855	1.5124e-01	1.0173e+00
113	VPW0000002	119.5650	120.1510	119.8267	1.0885e-01	1.0831e+00
114	VPW0000003	147.2581	147.6487	147.4769	1.0168e-01	1.1996e+00
115	VPW0000004	104.9429	105.5288	105.2671	1.4012e-01	1.0271e+00
116	VPW0000005	139.7498	140.1405	139.9608	1.2378e-01	1.1667e+00
117	VPW0000006	146.4506	146.8412	146.7124	1.0885e-01	1.1962e+00
118	IPW0000001	559.4966	565.3536	561.6830	1.5092e+00	9.2358e+00
119	IPW0000002	1293.4667	1303.2230	1298.6575	2.3192e+00	1.3072e+01
120	IPW0000003	1322.4749	1328.3248	1324.8933	1.3395e+00	1.3235e+01
121	IPW0000004	382.9346	384.8877	383.7746	6.2421e-01	3.6321e+00
122	IPW0000005	254.4161	255.3925	254.8164	3.3725e-01	2.8377e+00
123	IPW0000006	266.5734	268.0382	267.2178	3.7486e-01	2.9080e+00
124	EMPTY	-0.0244	-0.0146	-0.0194	2.5131e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.9611e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0170	3.5895e-03	0.0000e+00
128	IHT0000001	132.0876	134.4313	133.3649	4.9632e-01	4.3115e+00
129	IHT0000002	132.6022	134.7506	133.7505	4.5273e-01	4.3126e+00
130	IHT0000003	132.0012	133.9543	132.8371	4.3052e-01	4.3098e+00
131	IHT0000004	132.6698	135.0135	133.5604	4.6044e-01	4.3121e+00
132	IHT0000005	130.2283	132.3768	131.0956	4.6548e-01	4.3045e+00
133	IHT0000006	126.2883	128.2415	127.2218	4.5897e-01	4.2928e+00
134	IHT0000007	130.7843	132.7374	131.7842	4.8269e-01	4.3066e+00
135	IHT0000008	130.8105	132.7637	131.8496	5.0754e-01	4.3068e+00
136	IHT0000009	131.5017	133.6501	132.7204	5.3896e-01	4.3095e+00
137	IHT0000010	130.7167	132.8651	131.6268	5.7671e-01	4.3061e+00
138	IHT0000011	134.9421	137.2859	135.9071	5.2853e-01	4.3194e+00
139	IHT0000012	128.8386	130.7917	129.7372	4.8488e-01	4.3004e+00
140	IHT0000013	92.2776	94.2308	93.2112	4.8051e-01	4.2046e+00
141	IHT0000014	128.2189	130.5627	129.3673	4.6629e-01	4.2993e+00
142	IHT0000015	96.3079	98.2610	97.1594	4.9246e-01	4.2135e+00
143	IHT0000016	89.4343	91.3875	90.3601	4.6490e-01	4.1984e+00
144	IHT0000017	106.6406	109.1797	107.9219	5.9472e-01	4.2397e+00
145	IHT0000018	108.2219	110.5657	109.4289	5.7003e-01	4.2435e+00
146	IHT0000019	103.7673	106.6970	104.8845	4.9448e-01	4.2320e+00
147	IHT0000020	106.5956	109.3299	107.8026	4.7628e-01	4.2394e+00
148	IHT0000021	-2.5653	0.7550	-1.3075	5.8814e-01	4.1000e+00
149	IHT0000022	93.1678	95.9022	94.2459	4.7881e-01	4.2069e+00
150	IHT0000023	105.9946	108.5336	107.0337	4.8075e-01	4.2374e+00
151	IHT0000024	71.4693	73.8131	72.4771	4.6915e-01	4.1636e+00
152	IHT0000025	103.7748	106.1185	104.8491	5.1637e-01	4.2319e+00
153	IHT0000026	104.8715	107.9965	106.1724	5.0780e-01	4.2352e+00
154	IHT0000027	90.2457	93.3707	91.4956	5.6082e-01	4.2009e+00
155	IHT0000028	92.1950	95.1247	93.5466	6.0982e-01	4.2054e+00

Test: May03_13

sum1

Date: Thu May 3 12:16:51 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	108.3834	106.8052	6.0469e-01	4.2368e+00
157	IHT000030	107.8651	110.4042	108.8690	5.8529e-01	4.2421e+00
158	IHT000031	106.9561	109.2999	107.8077	5.9681e-01	4.2394e+00
159	IHT000032	108.2144	110.5582	108.9800	5.6750e-01	4.2424e+00
160	IHT000033	108.0003	110.3440	108.9300	5.6711e-01	4.2422e+00
161	IHT000034	94.3848	96.9238	95.5527	5.5030e-01	4.2099e+00
162	IHT000035	124.7897	127.3287	125.7583	5.4528e-01	4.2885e+00
163	IHT000036	93.0025	95.7369	94.0025	5.4909e-01	4.2064e+00

Velocity 1 = 14.0378 (ft/sec) (+/- 1.8653 %)
Velocity 2 = 13.4161 (ft/sec) (+/- 1.7032 %)
Pressure drop = 2.0740 (psi)
Tsats in = 266.8989 (deg F) Tsats out = 263.7877 (deg F)
Phi inner = 100.8371 (kBtu/hr-ft2) (+/- 1.4123 %)
Phi outer = 101.2770 (kBtu/hr-ft2) (+/- 1.6179 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2000	73.6260	73.4215	1.6078e-01	1.9000e+00
1	TRF000002	73.4321	73.8557	73.7159	1.2555e-01	1.9000e+00
2	TFM000001	85.5104	86.4549	86.0121	2.2356e-01	1.9002e+00
3	TIN000001	85.8365	86.3632	86.0536	1.3511e-01	1.9002e+00
4	TRV000001	85.2381	86.2861	85.7351	2.1664e-01	1.9002e+00
5	TSR000001	108.1855	109.0077	108.6927	2.0810e-01	1.9010e+00
6	TAO020136	123.1322	124.1539	123.5715	2.8903e-01	1.9019e+00
7	TAO050136	126.5767	127.4889	126.9317	2.1106e-01	1.9022e+00
8	TAO070136	130.8472	131.6600	131.3003	1.7085e-01	1.9025e+00
9	TAO080136	137.1913	137.8954	137.5634	1.7276e-01	1.9031e+00
10	TAO090136	138.9608	139.9673	139.6109	2.2011e-01	1.9033e+00
11	TAO100136	135.1404	136.1501	135.6190	2.1285e-01	1.9029e+00
12	TAO105136	136.7278	137.8393	137.2271	2.0657e-01	1.9030e+00
13	TAO110136	140.2497	141.0511	140.6767	1.7266e-01	1.9034e+00
14	TAO115136	139.2131	140.2233	139.8532	2.4964e-01	1.9033e+00
15	TAO120136	145.4057	146.0059	145.7916	1.5114e-01	1.9039e+00
16	TAO125136	139.9477	140.7525	140.3080	1.9502e-01	1.9033e+00
17	TAO130136	138.9735	139.5751	139.3602	1.4877e-01	1.9032e+00
18	TAO120048	148.0101	148.8105	148.4803	1.8328e-01	1.9041e+00
19	TAO130048	142.6766	143.3787	143.0237	1.5862e-01	1.9036e+00
20	TAO120224	144.7829	145.6852	145.2022	1.7856e-01	1.9038e+00
21	TAO130224	137.2295	137.9325	137.6097	1.6883e-01	1.9031e+00
22	TAO120312	146.1685	146.9707	146.5275	1.6962e-01	1.9039e+00
23	TAO130312	143.8574	144.4595	144.1806	1.3939e-01	1.9037e+00
24	TRT020000	119.9348	120.6522	120.3875	1.6833e-01	1.9017e+00
25	TRT070000	135.7777	136.5899	136.1618	1.7779e-01	1.9029e+00
26	TRT100000	144.6043	145.3053	144.9592	1.8894e-01	1.9038e+00
27	TRT120000	143.8929	144.5949	144.2162	1.5869e-01	1.9037e+00
28	TRT125000	148.9493	149.7467	149.3106	1.8976e-01	1.9042e+00
29	TRT130000	144.9003	145.5018	145.2071	1.6252e-01	1.9038e+00
30	EMPTY	39.1464	40.0646	39.5781	2.1070e-01	1.9011e+00
31	TAF050136	99.3102	100.2431	99.8634	2.0485e-01	1.9006e+00
32	TAF070136	104.6868	105.5125	104.9949	2.1095e-01	1.9008e+00
33	TAF080136	136.9419	138.1426	137.5246	2.7577e-01	1.9031e+00
34	TAF090136	114.3015	115.2239	114.7341	2.3000e-01	1.9013e+00
35	TAF100136	111.2104	112.1383	111.5796	2.2825e-01	1.9012e+00
36	TAF105136	112.3823	113.2018	112.8270	2.1239e-01	1.9012e+00
37	TAF110136	121.2157	121.9296	121.5037	1.9292e-01	1.9018e+00
38	TAF115136	115.8472	116.7695	116.3248	1.7762e-01	1.9014e+00
39	TAF120136	128.6422	129.4533	129.0459	1.9475e-01	1.9023e+00
40	TAF125136	118.3217	119.4421	118.9389	2.8064e-01	1.9016e+00
41	TAF130136	119.6036	120.5229	120.1858	1.7547e-01	1.9017e+00
42	TAF120048	121.7931	122.6131	122.2624	1.9020e-01	1.9018e+00
43	TAF130048	124.2262	125.1423	124.7695	2.1139e-01	1.9020e+00
44	TAF120224	117.7631	118.5826	118.2486	1.8376e-01	1.9016e+00
45	TAF130224	120.0625	120.7809	120.3889	1.5468e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0388	2.1635e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3531	1.6885e-01	1.9010e+00
48	TAI130138	136.1692	137.3817	136.7898	3.3901e-01	1.9030e+00
49	TAI130226	135.6410	136.3463	135.9499	1.6347e-01	1.9029e+00
50	TAI130314	140.1493	141.3597	140.7445	2.8402e-01	1.9034e+00
51	TAI130042	138.0391	138.9472	138.4449	1.9599e-01	1.9032e+00
52	TRR130090	101.8296	107.3025	104.9812	1.3792e+00	1.9008e+00
53	TSI000001	47.1546	47.9123	47.5252	1.6680e-01	1.9003e+00
54	TSI000002	114.6990	121.4414	117.9246	1.5688e+00	1.9015e+00
55	TSO000001	46.2781	47.0401	46.6374	1.6788e-01	1.9004e+00
56	TSO000002	54.6907	55.7673	55.2571	2.3900e-01	1.9001e+00
57	TAF020136	89.1662	90.1135	89.5639	2.2810e-01	1.9003e+00
58	TAF120312	120.8679	122.0929	121.5886	2.7233e-01	1.9018e+00
59	TAF130312	126.5878	127.4003	126.9962	2.0965e-01	1.9022e+00
60	EMPTY	1.4502	1.4600	1.4543	2.4878e-03	0.0000e+00
61	EMPTY	1.4600	1.4746	1.4636	3.0897e-03	0.0000e+00
62	EMPTY	1.4648	1.4746	1.4704	1.9754e-03	0.0000e+00
63	EMPTY	1.4795	1.4844	1.4815	2.4344e-03	0.0000e+00
64	EMPTY	0.7666	0.7715	0.7672	1.6028e-03	0.0000e+00
65	EMPTY	0.7861	0.7861	0.7861	0.0000e+00	0.0000e+00
66	EMPTY	0.7959	0.8057	0.8007	1.2041e-03	0.0000e+00
67	EMPTY	0.8154	0.8203	0.8155	6.9053e-04	0.0000e+00
68	EMPTY	0.8252	0.8301	0.8270	2.3675e-03	0.0000e+00
69	EMPTY	0.8398	0.8447	0.8444	1.1714e-03	0.0000e+00
70	EMPTY	0.8545	0.8594	0.8575	2.3941e-03	0.0000e+00
71	EMPTY	0.8789	0.8838	0.8790	6.9053e-04	0.0000e+00
72	EMPTY	0.8887	0.8936	0.8892	1.4797e-03	0.0000e+00
73	EMPTY	0.9033	0.9082	0.9080	9.6655e-04	0.0000e+00
74	EMPTY	0.9131	0.9229	0.9201	2.6396e-03	0.0000e+00
75	EMPTY	0.9326	0.9375	0.9365	1.9730e-03	0.0000e+00
76	EMPTY	0.9473	0.9521	0.9476	1.1714e-03	0.0000e+00
77	EMPTY	0.9619	0.9668	0.9662	1.6028e-03	0.0000e+00
78	EMPTY	0.9814	0.9863	0.9862	6.9053e-04	0.0000e+00
79	EMPTY	1.0010	1.0107	1.0060	1.2041e-03	0.0000e+00
80	PAN020136	8.6741	10.2763	9.4065	4.2855e-01	8.7032e-01
81	PAN050136	12.9279	13.9960	13.4620	2.1413e-01	1.6803e+00
82	PAN070136	8.8108	9.4212	9.0489	1.3405e-01	8.7029e-01
83	PAN080136	4.0730	4.7597	4.4072	1.7156e-01	8.7007e-01
84	PAN090136	3.6828	4.1406	3.9148	1.0220e-01	8.7006e-01
85	PAN100136	4.2917	4.8258	4.4962	9.8020e-02	8.7007e-01
86	PAN105136	0.9531	1.5634	1.2857	1.4440e-01	8.7001e-01
87	PAN110136	3.4428	4.2821	3.8029	1.5417e-01	8.7005e-01
88	PAN115136	1.2333	1.6911	1.4851	1.0595e-01	8.7001e-01
89	PAN120136	1.8099	2.1151	1.9274	7.7392e-02	8.7001e-01
90	PAN125136	2.1092	2.3381	2.2298	5.9876e-02	8.7002e-01
91	PAN130136	1.5574	1.8626	1.7283	8.0918e-02	8.7001e-01
92	PAN120048	2.0938	2.5516	2.2479	1.0952e-01	8.7002e-01
93	PAN130048	5.8485	6.3825	6.1216	1.1231e-01	8.7013e-01
94	PAN120224	3.6256	4.1597	3.9018	1.0095e-01	8.7005e-01
95	PAN130224	6.3927	6.8504	6.6246	1.0563e-01	8.7016e-01
96	PAN120312	3.5037	4.1141	3.7860	1.5043e-01	8.7005e-01
97	PAN130312	5.2087	5.7428	5.4391	1.2282e-01	8.7011e-01
98	PAB000136	39.5357	39.8562	39.6859	7.7949e-02	5.8842e-01
99	PAB100136	37.9230	38.0603	37.9816	3.3396e-02	5.8772e-01
100	PAB125136	37.5955	37.7328	37.6605	4.9016e-02	5.8759e-01

Test: May03_13

sum2

Date: Thu May 3 12:16:51 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0838	39.9383	39.5110	1.9301e-01	7.5648e-01
102	PRV000001	19.8484	19.9704	19.8508	1.7263e-02	7.5164e-01
103	PSR000001	36.8585	37.1026	36.9781	3.8916e-02	7.5568e-01
104	PFM000001	29.8761	30.5170	30.2130	1.8258e-01	5.0567e-01
105	PAN000136	54.9847	61.8512	57.4200	1.3416e+00	4.9221e+00
106	PFM000002	27.5792	27.5792	27.5792	3.8534e-06	2.1155e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-9.1553	-8.1445	-8.5510	2.1806e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9644	103.3316	102.5855	3.2941e-01	1.0173e+00
113	VPW000002	119.5650	120.1510	119.8228	1.6479e-01	1.0830e+00
114	VPW000003	147.0628	148.0394	147.5863	2.4465e-01	1.2001e+00
115	VPW000004	104.7476	106.1148	105.2944	2.8454e-01	1.0272e+00
116	VPW000005	139.3592	141.1170	139.9999	3.6601e-01	1.1669e+00
117	VPW000006	145.8646	147.6225	146.8530	3.6038e-01	1.1969e+00
118	IPW000001	559.4966	575.1153	566.7983	3.0504e+00	9.2553e+00
119	IPW000002	1277.8566	1285.6616	1281.3687	2.4932e+00	1.2965e+01
120	IPW000003	1316.6249	1328.3248	1320.2128	3.0353e+00	1.3206e+01
121	IPW000004	384.8877	390.2588	386.9679	1.2114e+00	3.6532e+00
122	IPW000005	253.4396	257.3455	255.3340	9.0209e-01	2.8406e+00
123	IPW000006	266.0851	269.5031	267.7842	8.3845e-01	2.9112e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.9766e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0159	3.0897e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0187	3.2253e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0193	3.6858e-03	0.0000e+00
128	IHT000001	131.8923	135.2126	133.3102	7.8702e-01	4.3113e+00
129	IHT000002	132.4069	135.5319	133.7544	7.3106e-01	4.3127e+00
130	IHT000003	131.6106	134.5403	132.9152	7.3126e-01	4.3101e+00
131	IHT000004	132.2792	135.2088	133.5800	6.8187e-01	4.3121e+00
132	IHT000005	129.8377	133.1580	131.1268	6.9810e-01	4.3046e+00
133	IHT000006	126.0930	129.2180	127.2101	6.6736e-01	4.2928e+00
134	IHT000007	130.5889	133.5186	131.7998	6.7543e-01	4.3066e+00
135	IHT000008	130.6152	133.3496	131.8457	6.4265e-01	4.3068e+00
136	IHT000009	131.5017	134.2360	132.6657	6.3743e-01	4.3093e+00
137	IHT000010	130.7167	133.0604	131.6620	5.5854e-01	4.3062e+00
138	IHT000011	134.7468	137.2859	136.0204	5.4138e-01	4.3197e+00
139	IHT000012	128.4480	131.1824	129.8309	5.6475e-01	4.3007e+00
140	IHT000013	92.2776	94.4261	93.2425	5.1661e-01	4.2047e+00
141	IHT000014	128.2189	130.5627	129.4025	5.5861e-01	4.2994e+00
142	IHT000015	96.1125	98.4563	97.1516	4.9825e-01	4.2135e+00
143	IHT000016	89.2390	91.7781	90.3875	5.0937e-01	4.1985e+00
144	IHT000017	105.2734	108.3984	106.9766	7.4560e-01	4.2373e+00
145	IHT000018	108.2219	110.3703	109.3195	5.2924e-01	4.2432e+00
146	IHT000019	103.9626	105.9157	104.8688	5.3780e-01	4.2320e+00
147	IHT000020	106.5956	109.1346	107.7206	5.6160e-01	4.2391e+00
148	IHT000021	-2.7606	0.1690	-1.4325	6.5791e-01	4.1000e+00
149	IHT000022	92.7772	95.5116	94.2342	6.1664e-01	4.2069e+00
150	IHT000023	105.7993	108.1430	106.9595	5.4306e-01	4.2372e+00
151	IHT000024	71.2740	73.4225	72.4185	5.1450e-01	4.1635e+00
152	IHT000025	103.3842	106.1185	104.7553	5.1522e-01	4.2317e+00
153	IHT000026	104.8715	107.4106	106.0903	5.1984e-01	4.2350e+00
154	IHT000027	89.8550	92.5894	91.4566	5.7858e-01	4.2008e+00
155	IHT000028	91.9997	94.7341	93.4528	5.5406e-01	4.2052e+00

Test: May03_13

sum2

Date: Thu May 3 12:16:51 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	107.7975	106.6451	5.4426e-01	4.2364e+00
157	IHT000030	107.6698	109.8182	108.7284	5.6094e-01	4.2417e+00
158	IHT000031	106.7608	108.9092	107.6787	5.7487e-01	4.2390e+00
159	IHT000032	108.0191	109.9722	108.8120	5.4877e-01	4.2419e+00
160	IHT000033	107.8050	109.9534	108.7503	5.6821e-01	4.2418e+00
161	IHT000034	94.5801	96.5332	95.5098	5.1078e-01	4.2098e+00
162	IHT000035	124.3990	126.9381	125.7154	5.6194e-01	4.2884e+00
163	IHT000036	93.0025	94.9557	94.0455	4.6120e-01	4.2065e+00

Velocity 1 = 0.015300 (ft/sec)
 Velocity 2 = 0.000600 (ft/sec)
 Pressure Drop = 0.019200 (psi)
 Tsat in = 0.215393 (deg F) Tsat out = 0.293121 (deg F)
 Phi inner = 0.183006 (kBtu/hr-ft2) Phi outer = 0.394600 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1065	0.1453
1	TRF000002	0.1186	0.1611
2	TFM000001	0.5601	0.6555
3	TIN000001	0.5869	0.6867
4	TRV000001	0.4921	0.5773
5	TSR000001	0.7007	0.6489
6	TAO020136	0.4105	0.3333
7	TAO050136	0.4800	0.3796
8	TAO070136	0.7263	0.5562
9	TAO080136	0.4959	0.3618
10	TAO090136	0.4566	0.3281
11	TAO100136	0.5390	0.3990
12	TAO105136	0.4426	0.3236
13	TAO110136	0.4774	0.3405
14	TAO115136	0.4666	0.3348
15	TAO120136	0.4164	0.2864
16	TAO125136	0.5168	0.3697
17	TAO130136	0.5076	0.3656
18	TAO120048	0.4300	0.2904
19	TAO130048	0.4789	0.3360
20	TAO120224	0.4232	0.2923
21	TAO130224	0.4190	0.3054
22	TAO120312	0.2788	0.1906
23	TAO130312	0.4028	0.2802
24	TRT020000	0.4696	0.3916
25	TRT070000	0.4610	0.3397
26	TRT100000	0.3865	0.2673
27	TRT120000	0.4113	0.2860
28	TRT125000	0.4358	0.2927
29	TRT130000	0.4463	0.3083
30	EMPTY	0.0735	0.1860
31	TAF050136	0.5079	0.5112
32	TAF070136	0.4927	0.4715
33	TAF080136	0.4874	0.3557
34	TAF090136	0.7077	0.6206
35	TAF100136	0.5300	0.4773
36	TAF105136	0.4517	0.4020
37	TAF110136	0.4421	0.3652
38	TAF115136	0.4937	0.4262
39	TAF120136	0.4598	0.3576
40	TAF125136	0.5313	0.4487
41	TAF130136	0.5002	0.4179
42	TAF120048	0.4949	0.4064
43	TAF130048	0.4988	0.4014
44	TAF120224	0.4732	0.4018
45	TAF130224	0.4868	0.4060

Test: May03_13

dif

Date: Thu May 3 12:16:51 1990

Page: 2

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0484
47	EMPTY	0.0551	0.1402
48	TAI130138	0.4828	0.3542
49	TAI130226	0.4734	0.3494
50	TAI130314	0.4942	0.3524
51	TAI130042	0.4985	0.3614
52	TRR130090	1.1132	1.0717
53	TSI000001	0.1150	0.2426
54	TSI000002	3.6619	3.0118
55	TSO000001	0.1107	0.2379
56	TSO000002	0.1186	0.2151
57	TAF020136	0.4944	0.5551
58	TAF120312	0.4103	0.3386
59	TAF130312	0.4202	0.3320
60	EMPTY	0.0078	0.5392
61	EMPTY	0.0087	0.5980
62	EMPTY	0.0079	0.5402
63	EMPTY	0.0082	0.5566
64	EMPTY	0.0011	0.1436
65	EMPTY	0.0019	0.2423
66	EMPTY	0.0037	0.4642
67	EMPTY	0.0012	0.1474
68	EMPTY	0.0019	0.2303
69	EMPTY	0.0036	0.4282
70	EMPTY	0.0029	0.3393
71	EMPTY	0.0033	0.3768
72	EMPTY	0.0006	0.0675
73	EMPTY	0.0046	0.5092
74	EMPTY	0.0020	0.2178
75	EMPTY	0.0039	0.4182
76	EMPTY	0.0010	0.1056
77	EMPTY	0.0041	0.4261
78	EMPTY	0.0033	0.3357
79	EMPTY	0.0003	0.0298
80	PAN020136	0.2090	2.2724
81	PAN050136	0.0367	0.2734
82	PAN070136	0.0504	0.5601
83	PAN080136	0.0549	1.2614
84	PAN090136	0.0000	0.0000
85	PAN100136	0.2075	4.8383
86	PAN105136	0.1740	11.9203
87	PAN110136	0.1007	2.7200
88	PAN115136	0.0305	2.0124
89	PAN120136	0.0137	0.7058
90	PAN125136	0.0488	2.2375
91	PAN130136	0.0290	1.7066
92	PAN120048	0.0122	0.5398
93	PAN130048	0.0977	1.6219
94	PAN120224	0.0214	0.5515
95	PAN130224	0.0702	1.0710
96	PAN120312	0.0199	0.5229
97	PAN130312	0.0381	0.7054
98	PAB000136	0.1437	0.3608
99	PAB100136	0.1904	0.4988
100	PAB125136	0.1867	0.4933

Test: May03_13

dif

Date: Thu May 3 12:16:51 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1758	0.4430
102	PRV000001	0.0659	0.3331
103	PSR000001	0.1684	0.4533
104	PFM000001	0.0696	0.2298
105	PAN000136	0.5310	0.9334
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	2.0408
108	EMPTY	0.0252	0.2956
109	EMPTY	0.0004	7.6923
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0000	0.0000
113	VPW000002	0.0039	0.0033
114	VPW000003	0.1094	0.0742
115	VPW000004	0.0273	0.0259
116	VPW000005	0.0391	0.0279
117	VPW000006	0.1406	0.0958
118	IPW000001	5.1153	0.9107
119	IPW000002	17.2888	1.3313
120	IPW000003	4.6805	0.3533
121	IPW000004	3.1933	0.8321
122	IPW000005	0.5176	0.2031
123	IPW000006	0.5664	0.2120
124	EMPTY	0.0026	13.4021
125	EMPTY	0.0019	13.5714
126	EMPTY	0.0041	28.0822
127	EMPTY	0.0023	13.5294
128	IHT000001	0.0547	0.0410
129	IHT000002	0.0039	0.0029
130	IHT000003	0.0781	0.0588
131	IHT000004	0.0196	0.0147
132	IHT000005	0.0312	0.0238
133	IHT000006	0.0117	0.0092
134	IHT000007	0.0156	0.0118
135	IHT000008	0.0039	0.0030
136	IHT000009	0.0547	0.0412
137	IHT000010	0.0352	0.0267
138	IHT000011	0.1133	0.0834
139	IHT000012	0.0937	0.0722
140	IHT000013	0.0313	0.0336
141	IHT000014	0.0352	0.0272
142	IHT000015	0.0078	0.0080
143	IHT000016	0.0274	0.0303
144	IHT000017	0.9453	0.8759
145	IHT000018	0.1094	0.1000
146	IHT000019	0.0157	0.0150
147	IHT000020	0.0820	0.0761
148	IHT000021	0.1250	9.5602
149	IHT000022	0.0117	0.0124
150	IHT000023	0.0742	0.0693
151	IHT000024	0.0586	0.0808
152	IHT000025	0.0938	0.0895
153	IHT000026	0.0821	0.0773
154	IHT000027	0.0390	0.0426
155	IHT000028	0.0938	0.1003

Test: May03_13 dif Date: Thu May 3 12:16:51 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1601	0.1499
157	IHT000030	0.1406	0.1291
158	IHT000031	0.1290	0.1197
159	IHT000032	0.1680	0.1542
160	IHT000033	0.1797	0.1650
161	IHT000034	0.0429	0.0449
162	IHT000035	0.0429	0.0341
163	IHT000036	0.0430	0.0457

Test: May03_14 sum1 Date: Thu May 3 12:29:57 1990 Page: 1

Velocity 1 = 7.9519 (ft/sec) (+/- 3.0952 %)
Velocity 2 = 7.9955 (ft/sec) (+/- 1.9117 %)
Pressure drop = -2.8185 (psi)
Tsat in = 267.8660 (deg F) Tsat out = 271.6735 (deg F)
Phi inner = 101.0085 (kBtu/hr-ft2) (+/- 1.4118 %)
Phi outer = 101.4659 (kBtu/hr-ft2) (+/- 1.6181 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2000	73.8390	73.4812	1.8972e-01	1.9000e+00
1	TRF000002	73.6439	74.0674	73.8048	1.0958e-01	1.9000e+00
2	TFM000001	84.9861	85.8261	85.4063	2.0234e-01	1.9002e+00
3	TIN000001	85.2052	85.8370	85.4918	1.6751e-01	1.9002e+00
4	TRV000001	84.6115	85.5551	85.1184	2.0884e-01	1.9002e+00
5	TSR000001	110.7483	111.6721	111.2496	2.1801e-01	1.9011e+00
6	TAO020136	144.4151	145.7214	145.0462	2.4197e-01	1.9038e+00
7	TAO050136	150.8282	151.7240	151.3381	2.0554e-01	1.9045e+00
8	TAO070136	150.5458	151.6478	151.1549	2.4444e-01	1.9044e+00
9	TAO080136	171.5366	172.1249	171.8505	1.7600e-01	1.9070e+00
10	TAO090136	171.5476	172.4326	171.9410	1.8737e-01	1.9070e+00
11	TAO100136	166.7539	167.7408	167.2789	2.1501e-01	1.9064e+00
12	TAO105136	169.5777	170.5643	170.1462	2.2682e-01	1.9067e+00
13	TAO110136	177.0146	178.0848	177.5709	2.1825e-01	1.9078e+00
14	TAO115136	177.0960	178.3733	177.7955	2.7050e-01	1.9078e+00
15	TAO120136	185.4664	186.2430	185.8354	1.8881e-01	1.9090e+00
16	TAO125136	178.5814	179.5591	179.0939	2.5789e-01	1.9080e+00
17	TAO130136	173.6399	174.3223	173.9321	1.7629e-01	1.9073e+00
18	TAO120048	188.4020	189.2772	188.9425	1.9057e-01	1.9095e+00
19	TAO130048	180.1819	180.8636	180.4853	1.6096e-01	1.9082e+00
20	TAO120224	186.1630	187.1369	186.5993	2.0085e-01	1.9091e+00
21	TAO130224	172.0752	172.8592	172.4555	1.6268e-01	1.9071e+00
22	TAO120312	182.0982	182.7824	182.4150	1.6934e-01	1.9085e+00
23	TAO130312	182.0569	182.6431	182.4162	1.4147e-01	1.9085e+00
24	TRT020000	140.6958	141.8062	141.3340	2.4329e-01	1.9034e+00
25	TRT070000	168.9249	169.8163	169.3170	1.8438e-01	1.9066e+00
26	TRT100000	181.8100	182.7850	182.2588	1.6832e-01	1.9085e+00
27	TRT120000	184.4854	185.3617	184.9333	2.1470e-01	1.9089e+00
28	TRT125000	191.7731	192.6422	192.1633	1.9599e-01	1.9100e+00
29	TRT130000	183.9298	184.6115	184.1950	1.5751e-01	1.9088e+00
30	EMPTY	39.1464	39.8352	39.5092	2.1300e-01	1.9011e+00
31	TAF050136	108.8034	110.1407	109.4334	2.9068e-01	1.9010e+00
32	TAF070136	118.2039	119.4268	118.8317	2.8432e-01	1.9016e+00
33	TAF080136	154.6413	190.6220	173.1948	1.2110e+01	1.9072e+00
34	TAF090136	126.8508	127.9683	127.2819	2.8775e-01	1.9022e+00
35	TAF100136	130.3548	131.6753	130.9723	2.6665e-01	1.9025e+00
36	TAF105136	132.5229	133.7318	133.0110	2.6848e-01	1.9027e+00
37	TAF110136	147.6139	148.9118	148.0896	2.8283e-01	1.9041e+00
38	TAF115136	137.9803	138.9872	138.5769	2.3357e-01	1.9032e+00
39	TAF120136	159.3453	164.3794	161.1629	1.2824e+00	1.9056e+00
40	TAF125136	142.7917	144.0913	143.5191	3.2410e-01	1.9036e+00
41	TAF130136	145.1702	145.9719	145.5713	1.9205e-01	1.9038e+00
42	TAF120048	148.5661	149.7750	149.1788	2.9878e-01	1.9042e+00
43	TAF130048	153.3138	154.4095	153.8041	2.6829e-01	1.9047e+00
44	TAF120224	142.4190	143.4234	142.9050	2.5394e-01	1.9036e+00
45	TAF130224	146.2281	147.1345	146.6917	1.8188e-01	1.9040e+00

Test: May03_14

sum1

Date: Thu May 3 12:29:57 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0756	2.1089e-01	1.9010e+00
47	EMPTY	39.1464	40.0646	39.5001	1.6856e-01	1.9011e+00
48	TAI130138	171.3676	172.9425	171.9347	3.4130e-01	1.9070e+00
49	TAI130226	170.6980	171.6806	171.1893	2.0707e-01	1.9069e+00
50	TAI130314	178.1699	179.1510	178.7192	2.3037e-01	1.9079e+00
51	TAI130042	174.8653	175.7493	175.2740	1.8968e-01	1.9075e+00
52	TRR130090	113.9800	117.9705	115.6313	9.9436e-01	1.9014e+00
53	TSI000001	47.3716	48.1299	47.8001	1.9451e-01	1.9003e+00
54	TSI000002	116.3364	124.5957	122.1560	2.3379e+00	1.9018e+00
55	TSO000001	46.0600	47.1489	46.6785	2.4637e-01	1.9004e+00
56	TSO000002	57.4852	58.3449	57.9324	2.1967e-01	1.9001e+00
57	TAF020136	92.2170	93.5810	92.8968	2.7000e-01	1.9004e+00
58	TAF120312	149.0365	150.3350	149.6639	2.9103e-01	1.9043e+00
59	TAF130312	158.1566	159.2463	158.7185	2.7040e-01	1.9053e+00
60	EMPTY	2.2168	2.2266	2.2197	2.7902e-03	0.0000e+00
61	EMPTY	2.2217	2.2266	2.2225	1.8082e-03	0.0000e+00
62	EMPTY	2.2217	2.2266	2.2251	2.2603e-03	0.0000e+00
63	EMPTY	2.2266	2.2363	2.2314	9.8648e-04	0.0000e+00
64	EMPTY	1.0938	1.0986	1.0971	2.3008e-03	0.0000e+00
65	EMPTY	1.1133	1.1182	1.1134	6.9053e-04	0.0000e+00
66	EMPTY	1.1230	1.1279	1.1248	2.3675e-03	0.0000e+00
67	EMPTY	1.1328	1.1426	1.1378	1.2041e-03	0.0000e+00
68	EMPTY	1.1475	1.1523	1.1478	1.1714e-03	0.0000e+00
69	EMPTY	1.1621	1.1670	1.1626	1.4797e-03	0.0000e+00
70	EMPTY	1.1719	1.1768	1.1748	2.4164e-03	0.0000e+00
71	EMPTY	1.1914	1.1963	1.1950	2.1635e-03	0.0000e+00
72	EMPTY	1.2012	1.2109	1.2056	1.7784e-03	0.0000e+00
73	EMPTY	1.2158	1.2207	1.2202	1.4797e-03	0.0000e+00
74	EMPTY	1.2305	1.2354	1.2306	6.9053e-04	0.0000e+00
75	EMPTY	1.2402	1.2451	1.2450	6.9053e-04	0.0000e+00
76	EMPTY	1.2500	1.2549	1.2547	9.6655e-04	0.0000e+00
77	EMPTY	1.2646	1.2695	1.2694	6.9053e-04	0.0000e+00
78	EMPTY	1.2842	1.2891	1.2890	6.9053e-04	0.0000e+00
79	EMPTY	1.3086	1.3135	1.3088	9.6655e-04	0.0000e+00
80	PAN020136	-8.7972	-7.5765	-8.2860	2.1866e-01	8.7025e-01
81	PAN050136	-18.9630	-18.3526	-18.6822	1.4577e-01	1.6806e+00
82	PAN070136	-12.7041	-12.1700	-12.4660	1.1289e-01	8.7056e-01
83	PAN080136	-6.9133	-5.8452	-6.6417	2.0689e-01	8.7016e-01
84	PAN090136	-6.8457	-6.1591	-6.4643	1.4377e-01	8.7015e-01
85	PAN100136	-6.0080	-5.7028	-5.8798	8.3633e-02	8.7012e-01
86	PAN105136	-3.3957	-3.0905	-3.2461	7.7007e-02	8.7004e-01
87	PAN110136	-2.8133	-2.5081	-2.6637	7.0567e-02	8.7003e-01
88	PAN115136	-4.1073	-3.1154	-3.7350	2.7985e-01	8.7005e-01
89	PAN120136	-4.2936	-3.1492	-3.5704	2.8306e-01	8.7005e-01
90	PAN125136	-2.7736	-1.9343	-2.4348	1.7381e-01	8.7002e-01
91	PAN130136	-3.7068	-3.0965	-3.3635	1.5122e-01	8.7004e-01
92	PAN120048	-7.4430	-7.1378	-7.2843	7.3664e-02	8.7019e-01
93	PAN130048	-5.8245	-5.4430	-5.6750	8.0033e-02	8.7012e-01
94	PAN120224	-6.8267	-6.5215	-6.6756	8.0815e-02	8.7016e-01
95	PAN130224	-5.1277	-4.8225	-4.9934	7.6387e-02	8.7009e-01
96	PAN120312	-6.2619	-5.9567	-6.1230	7.5022e-02	8.7013e-01
97	PAN130312	-5.9302	-5.7013	-5.8508	6.7116e-02	8.7012e-01
98	PAB000136	40.1308	40.5886	40.3350	9.0240e-02	5.8870e-01
99	PAB100136	42.3175	42.4548	42.3770	4.1617e-02	5.8960e-01
100	PAB125136	42.9055	43.0886	42.9815	4.2992e-02	5.8987e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8162	40.5486	40.2190	1.5451e-01	7.5671e-01
102	PRV000001	19.7263	19.8484	19.7605	5.5366e-02	7.5163e-01
103	PSR000001	42.9620	43.2061	43.0254	6.6358e-02	7.5767e-01
104	PFM000001	9.2768	9.8261	9.5972	1.1439e-01	5.0058e-01
105	PAN000136	-80.5133	-75.4779	-78.0323	1.0629e+00	4.9239e+00
106	PFM000002	9.5745	9.8094	9.7040	6.0836e-02	2.0147e-01
107	EMPTY	-0.0049	0.0049	0.0016	3.1874e-03	0.0000e+00
108	EMPTY	-9.0820	-8.2764	-8.7218	1.9621e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	102.1597	102.9410	102.6245	1.8879e-01	1.0175e+00
113	VPW000002	119.9557	120.5416	120.1001	1.6178e-01	1.0841e+00
114	VPW000003	147.0628	148.0394	147.5551	1.9022e-01	1.2000e+00
115	VPW000004	104.9429	105.7241	105.3569	1.7487e-01	1.0275e+00
116	VPW000005	139.7498	140.5311	140.0233	1.9331e-01	1.1670e+00
117	VPW000006	146.4506	147.4271	146.7632	1.8082e-01	1.1965e+00
118	IPW000001	549.7349	559.4966	555.2014	1.9323e+00	9.2113e+00
119	IPW000002	1283.7103	1299.3206	1293.8569	3.2983e+00	1.3042e+01
120	IPW000003	1318.5748	1328.3248	1323.4113	2.0936e+00	1.3226e+01
121	IPW000004	384.8877	387.8174	386.0793	6.6292e-01	3.6473e+00
122	IPW000005	253.9278	256.3690	254.7188	5.2092e-01	2.8371e+00
123	IPW000006	266.5734	268.5265	267.7256	4.6017e-01	2.9109e+00
124	EMPTY	-0.0293	-0.0146	-0.0201	3.3656e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0155	3.5141e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0146	-0.0169	2.4583e-03	0.0000e+00
128	IHT000001	132.0876	133.8454	132.9938	5.0031e-01	4.3103e+00
129	IHT000002	132.6022	134.3600	133.3833	4.7186e-01	4.3115e+00
130	IHT000003	131.2199	133.3684	132.4543	4.5239e-01	4.3086e+00
131	IHT000004	131.6932	134.2323	133.2167	5.1297e-01	4.3110e+00
132	IHT000005	129.2518	131.7908	130.7792	4.9864e-01	4.3035e+00
133	IHT000006	125.5071	127.6555	126.8742	4.5506e-01	4.2918e+00
134	IHT000007	130.1983	132.3468	131.4756	4.4853e-01	4.3056e+00
135	IHT000008	130.2246	132.3730	131.5058	4.7213e-01	4.3057e+00
136	IHT000009	131.3064	133.4548	132.3766	5.1333e-01	4.3084e+00
137	IHT000010	130.3260	132.6698	131.4667	5.4155e-01	4.3056e+00
138	IHT000011	134.5515	136.8953	135.7508	5.4820e-01	4.3189e+00
139	IHT000012	128.4480	130.7917	129.6122	5.1894e-01	4.3000e+00
140	IHT000013	92.0823	94.4261	93.1253	5.0780e-01	4.2044e+00
141	IHT000014	128.2189	130.3674	129.2423	4.9215e-01	4.2989e+00
142	IHT000015	96.1125	97.8704	97.0500	4.8327e-01	4.2133e+00
143	IHT000016	89.0437	91.1921	90.1882	4.7843e-01	4.1980e+00
144	IHT000017	106.8359	109.1797	107.7930	5.4854e-01	4.2393e+00
145	IHT000018	108.0266	110.7610	109.1789	6.2795e-01	4.2429e+00
146	IHT000019	103.5720	105.9157	104.8532	4.5534e-01	4.2320e+00
147	IHT000020	106.5956	108.7440	107.7752	4.5328e-01	4.2393e+00
148	IHT000021	-2.3700	0.1690	-1.1474	5.7833e-01	4.1000e+00
149	IHT000022	92.9725	95.3163	94.0467	5.0571e-01	4.2065e+00
150	IHT000023	105.9946	107.9477	106.9829	4.6086e-01	4.2373e+00
151	IHT000024	71.2740	73.0318	72.3013	4.5474e-01	4.1633e+00
152	IHT000025	103.5795	105.7279	104.6772	4.5488e-01	4.2315e+00
153	IHT000026	104.8715	107.2153	106.1411	4.8848e-01	4.2352e+00
154	IHT000027	89.8550	92.3941	91.2964	4.8148e-01	4.2004e+00
155	IHT000028	92.3903	94.7341	93.2224	6.1865e-01	4.2046e+00

Test: May03_14 sum1 Date: Thu May 3 12:29:57 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	108.3834	106.6880	6.1313e-01	4.2365e+00
157	IHT000030	107.4745	110.2088	108.6151	5.8041e-01	4.2414e+00
158	IHT000031	106.5655	109.1046	107.5342	5.7987e-01	4.2387e+00
159	IHT000032	107.8238	110.1675	108.7691	5.5152e-01	4.2418e+00
160	IHT000033	107.8050	110.1487	108.7230	5.5278e-01	4.2417e+00
161	IHT000034	94.3848	96.5332	95.4199	4.6059e-01	4.2096e+00
162	IHT000035	124.5943	126.5475	125.5435	4.4118e-01	4.2879e+00
163	IHT000036	93.0025	94.7604	93.9048	3.8640e-01	4.2062e+00

Test: May03_14

sum2

Date: Thu May 3 12:29:57 1990

Page: 1

Velocity 1 = 7.8848 (ft/sec) (+/- 3.1332 %)
Velocity 2 = 7.9381 (ft/sec) (+/- 1.9184 %)
Pressure drop = -2.8473 (psi)
Tsat in = 267.8254 (deg F) Tsat out = 271.6978 (deg F)
Phi inner = 101.8655 (kBtu/hr-ft2) (+/- 1.4095 %)
Phi outer = 101.4517 (kBtu/hr-ft2) (+/- 1.6183 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.2000	73.8390	73.5919	1.6863e-01	1.9000e+00
1	TRF000002	73.6439	74.0674	73.9150	1.2863e-01	1.9000e+00
2	TFM000001	84.6720	85.8256	85.3186	2.1562e-01	1.9002e+00
3	TIN000001	84.9951	85.6265	85.3023	1.5887e-01	1.9002e+00
4	TRV000001	84.7165	85.5551	85.1735	2.1254e-01	1.9002e+00
5	TSR000001	114.8395	117.0872	115.8214	6.5740e-01	1.9014e+00
6	TAO020136	146.1231	147.0263	146.6088	2.4615e-01	1.9039e+00
7	TAO050136	148.6417	149.6392	149.1889	2.0658e-01	1.9042e+00
8	TAO070136	150.1440	151.2464	150.6934	2.5544e-01	1.9044e+00
9	TAO080136	164.1858	164.9751	164.6048	1.5249e-01	1.9060e+00
10	TAO090136	168.8948	169.9776	169.5246	1.7330e-01	1.9067e+00
11	TAO100136	165.6701	166.5582	166.0842	1.8915e-01	1.9062e+00
12	TAO105136	169.4793	170.5643	170.0751	2.1269e-01	1.9067e+00
13	TAO110136	174.3923	175.1740	174.6524	2.0077e-01	1.9074e+00
14	TAO115136	172.1700	173.4523	172.8011	3.1685e-01	1.9071e+00
15	TAO120136	180.4366	181.3135	180.9668	1.7807e-01	1.9083e+00
16	TAO125136	175.1587	176.3344	175.8014	2.4087e-01	1.9075e+00
17	TAO130136	172.5744	173.4535	173.1022	1.6128e-01	1.9071e+00
18	TAO120048	186.1667	187.0430	186.6109	1.9673e-01	1.9091e+00
19	TAO130048	179.7908	180.5718	180.2171	1.6113e-01	1.9082e+00
20	TAO120224	179.9212	180.8017	180.3793	1.9994e-01	1.9082e+00
21	TAO130224	170.5149	171.2997	170.8888	1.7376e-01	1.9068e+00
22	TAO120312	176.0269	176.8118	176.5137	1.9112e-01	1.9076e+00
23	TAO130312	180.3033	180.8896	180.5542	1.4251e-01	1.9082e+00
24	TRT020000	144.2258	145.2315	144.6964	2.5260e-01	1.9038e+00
25	TRT070000	166.0443	166.8373	166.4842	1.5661e-01	1.9063e+00
26	TRT100000	180.2510	181.2276	180.7865	1.9649e-01	1.9083e+00
27	TRT120000	182.5368	183.3173	182.8651	1.9483e-01	1.9086e+00
28	TRT125000	189.3630	190.1376	189.6897	1.6552e-01	1.9096e+00
29	TRT130000	181.8871	182.6673	182.3012	1.5828e-01	1.9085e+00
30	EMPTY	39.1464	39.8352	39.6148	1.9655e-01	1.9011e+00
31	TAF050136	108.5977	109.5252	108.9570	2.0297e-01	1.9010e+00
32	TAF070136	117.2860	118.6125	118.1073	2.6236e-01	1.9016e+00
33	TAF080136	163.3093	164.3875	163.8118	2.5114e-01	1.9059e+00
34	TAF090136	127.4604	128.6788	128.1264	2.6902e-01	1.9023e+00
35	TAF100136	130.0496	131.1672	130.5496	2.5867e-01	1.9025e+00
36	TAF105136	132.1236	133.4314	132.7750	2.9316e-01	1.9027e+00
37	TAF110136	146.5159	147.6163	147.1523	2.4782e-01	1.9040e+00
38	TAF115136	138.1817	139.5912	138.7704	2.8133e-01	1.9032e+00
39	TAF120136	158.7509	159.7407	159.2668	2.4487e-01	1.9054e+00
40	TAF125136	142.7939	144.1894	143.4322	3.1432e-01	1.9036e+00
41	TAF130136	145.1702	146.0713	145.6317	1.9089e-01	1.9038e+00
42	TAF120048	148.7676	150.0754	149.2949	2.6475e-01	1.9042e+00
43	TAF130048	153.6129	154.8073	154.2303	2.6607e-01	1.9048e+00
44	TAF120224	141.4129	142.6197	142.1492	2.3560e-01	1.9035e+00
45	TAF130224	145.7237	146.5293	146.1387	1.8141e-01	1.9039e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0066	2.1267e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4220	9.2764e-02	1.9010e+00
48	TAI130138	172.1550	173.4338	172.7493	2.9870e-01	1.9071e+00
49	TAI130226	171.4821	172.3665	171.8679	1.9017e-01	1.9070e+00
50	TAI130314	177.6785	178.8568	178.2951	2.9412e-01	1.9079e+00
51	TAI130042	175.2581	176.4359	175.7452	2.3373e-01	1.9075e+00
52	TRR130090	112.5464	116.2338	114.4071	8.4034e-01	1.9013e+00
53	TSI000001	47.4791	48.1299	47.8524	1.6101e-01	1.9003e+00
54	TSI000002	112.2401	120.1159	116.8311	1.9639e+00	1.9015e+00
55	TSO000001	46.0600	47.2572	46.6563	1.9574e-01	1.9004e+00
56	TSO000002	57.3784	58.3454	57.9842	2.0906e-01	1.9001e+00
57	TAF020136	92.0068	93.1611	92.7493	2.8039e-01	1.9003e+00
58	TAF120312	147.6372	149.2367	148.3494	3.3224e-01	1.9041e+00
59	TAF130312	156.6687	157.9593	157.3044	2.8335e-01	1.9051e+00
60	EMPTY	2.1777	2.1875	2.1827	2.8744e-03	0.0000e+00
61	EMPTY	2.1826	2.1875	2.1858	2.3365e-03	0.0000e+00
62	EMPTY	2.1826	2.1924	2.1875	2.2058e-03	0.0000e+00
63	EMPTY	2.1875	2.1973	2.1952	2.8058e-03	0.0000e+00
64	EMPTY	1.0791	1.0840	1.0801	1.9730e-03	0.0000e+00
65	EMPTY	1.0938	1.0986	1.0976	2.0432e-03	0.0000e+00
66	EMPTY	1.1084	1.1133	1.1085	6.9053e-04	0.0000e+00
67	EMPTY	1.1182	1.1230	1.1229	9.6655e-04	0.0000e+00
68	EMPTY	1.1328	1.1328	1.1328	0.0000e+00	0.0000e+00
69	EMPTY	1.1475	1.1475	1.1475	0.0000e+00	0.0000e+00
70	EMPTY	1.1572	1.1621	1.1582	1.9730e-03	0.0000e+00
71	EMPTY	1.1768	1.1816	1.1778	2.0432e-03	0.0000e+00
72	EMPTY	1.1865	1.1914	1.1880	2.2603e-03	0.0000e+00
73	EMPTY	1.2012	1.2061	1.2048	2.1635e-03	0.0000e+00
74	EMPTY	1.2109	1.2158	1.2157	6.9053e-04	0.0000e+00
75	EMPTY	1.2256	1.2305	1.2300	1.4797e-03	0.0000e+00
76	EMPTY	1.2402	1.2451	1.2403	6.9053e-04	0.0000e+00
77	EMPTY	1.2549	1.2598	1.2550	6.9053e-04	0.0000e+00
78	EMPTY	1.2695	1.2744	1.2743	6.9053e-04	0.0000e+00
79	EMPTY	1.2939	1.2939	1.2939	0.0000e+00	0.0000e+00
80	PAN020136	-8.7972	-7.8817	-8.4432	1.7147e-01	8.7026e-01
81	PAN050136	-19.2681	-18.5052	-18.8684	1.5380e-01	1.6807e+00
82	PAN070136	-12.8566	-12.3989	-12.5881	1.1141e-01	8.7057e-01
83	PAN080136	-6.5318	-6.1504	-6.3533	9.8225e-02	8.7014e-01
84	PAN090136	-6.9220	-6.6931	-6.8167	7.5338e-02	8.7017e-01
85	PAN100136	-6.2369	-5.9317	-6.0843	8.9877e-02	8.7013e-01
86	PAN105136	-3.3957	-3.1668	-3.2507	7.1054e-02	8.7004e-01
87	PAN110136	-2.8896	-2.6607	-2.7385	5.8673e-02	8.7003e-01
88	PAN115136	-2.9629	-2.6577	-2.8438	7.7315e-02	8.7003e-01
89	PAN120136	-3.3018	-3.0729	-3.1996	5.8916e-02	8.7004e-01
90	PAN125136	-3.3076	-3.0024	-3.1337	7.8655e-02	8.7004e-01
91	PAN130136	-3.9357	-3.5543	-3.7191	7.6076e-02	8.7005e-01
92	PAN120048	-7.5192	-7.1378	-7.3529	9.2083e-02	8.7019e-01
93	PAN130048	-5.9771	-5.7482	-5.8505	8.0992e-02	8.7012e-01
94	PAN120224	-6.0637	-5.8348	-5.9416	6.5395e-02	8.7013e-01
95	PAN130224	-5.8143	-5.5092	-5.6251	6.5829e-02	8.7011e-01
96	PAN120312	-6.4145	-6.1093	-6.2878	8.3874e-02	8.7014e-01
97	PAN130312	-6.1591	-5.7776	-5.9393	8.5320e-02	8.7013e-01
98	PAB000136	40.1308	40.4512	40.3075	7.9022e-02	5.8869e-01
99	PAB100136	42.3175	42.5006	42.3926	4.2138e-02	5.8960e-01
100	PAB125136	42.9055	43.0886	42.9989	4.1318e-02	5.8988e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8162	40.5486	40.1995	1.6728e-01	7.5670e-01
102	PRV000001	19.7263	19.9704	19.8020	6.4735e-02	7.5163e-01
103	PSR000001	42.9620	43.2061	43.0791	3.4527e-02	7.5769e-01
104	PFM000001	9.2768	9.6430	9.4342	9.4386e-02	5.0056e-01
105	PAN000136	-80.9711	-76.3935	-78.8288	1.0149e+00	4.9239e+00
106	PFM000002	9.4234	9.7255	9.5637	7.3319e-02	2.0142e-01
107	EMPTY	-0.0049	0.0049	-0.0004	4.0482e-03	0.0000e+00
108	EMPTY	-9.0332	-8.3057	-8.7252	1.8473e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0031	2.3675e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	101.7691	102.7457	102.1988	2.5572e-01	1.0159e+00
113	VPW000002	119.5650	120.1510	119.8736	1.6783e-01	1.0832e+00
114	VPW000003	147.2581	148.4300	147.7269	2.4956e-01	1.2007e+00
115	VPW000004	104.7476	105.9195	105.3530	2.8794e-01	1.0275e+00
116	VPW000005	139.5545	140.7264	140.1327	3.1310e-01	1.1675e+00
117	VPW000006	146.4506	147.4271	146.9311	2.8512e-01	1.1972e+00
118	IPW000001	541.9255	555.5919	547.3530	3.3303e+00	9.1819e+00
119	IPW000002	1291.5154	1312.9794	1303.3793	4.6618e+00	1.3101e+01
120	IPW000003	1322.4749	1343.9249	1334.3311	4.0911e+00	1.3294e+01
121	IPW000004	383.4229	387.8174	385.7179	1.2092e+00	3.6449e+00
122	IPW000005	254.4161	257.8337	255.8710	7.9212e-01	2.8436e+00
123	IPW000006	267.0616	269.9913	268.4385	7.4275e-01	2.9150e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	2.9856e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0141	3.0628e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.8409e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT000001	132.0876	134.4313	133.0563	5.2193e-01	4.3105e+00
129	IHT000002	132.6022	134.7506	133.5279	5.0038e-01	4.3120e+00
130	IHT000003	131.6106	133.7590	132.6378	4.6322e-01	4.3092e+00
131	IHT000004	132.4745	134.6229	133.3807	5.5209e-01	4.3115e+00
132	IHT000005	130.0330	132.1815	130.9745	5.4489e-01	4.3041e+00
133	IHT000006	126.0930	128.6321	127.0929	5.3618e-01	4.2925e+00
134	IHT000007	130.5889	132.9327	131.7295	5.3432e-01	4.3064e+00
135	IHT000008	130.8105	132.9590	131.7480	5.1448e-01	4.3065e+00
136	IHT000009	131.5017	134.0407	132.5680	5.4277e-01	4.3090e+00
137	IHT000010	130.5213	133.0604	131.5175	5.3416e-01	4.3058e+00
138	IHT000011	134.7468	136.8953	135.7079	5.1876e-01	4.3188e+00
139	IHT000012	128.6433	130.5964	129.5809	5.1448e-01	4.2999e+00
140	IHT000013	92.0823	94.2308	93.0354	5.6309e-01	4.2042e+00
141	IHT000014	127.8283	130.5627	129.2111	6.0854e-01	4.2988e+00
142	IHT000015	95.7219	98.4563	96.9602	5.5469e-01	4.2131e+00
143	IHT000016	88.8484	90.8015	89.7859	4.6855e-01	4.1972e+00
144	IHT000017	105.8594	108.9844	107.3320	6.1537e-01	4.2382e+00
145	IHT000018	108.4172	110.3703	109.2922	4.3088e-01	4.2432e+00
146	IHT000019	103.9626	106.3063	104.9743	4.9551e-01	4.2323e+00
147	IHT000020	107.1815	109.5252	107.8729	4.8842e-01	4.2395e+00
148	IHT000021	-2.3700	0.3644	-1.4638	5.8095e-01	4.1000e+00
149	IHT000022	92.5819	95.3163	93.6131	4.9918e-01	4.2055e+00
150	IHT000023	105.9946	108.9243	106.9399	5.3286e-01	4.2372e+00
151	IHT000024	71.4693	73.8131	72.3052	4.9762e-01	4.1633e+00
152	IHT000025	103.7748	106.1185	104.7710	4.7556e-01	4.2317e+00
153	IHT000026	105.0668	107.2153	106.1099	4.4400e-01	4.2351e+00
154	IHT000027	90.0503	92.0035	90.9058	3.9830e-01	4.1996e+00
155	IHT000028	91.6091	94.5388	92.8239	6.1167e-01	4.2038e+00

Test: May03_14

sum2

Date: Thu May 3 12:29:57 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	108.3834	106.6412	5.8105e-01	4.2364e+00
157	IHT000030	107.2792	110.0135	108.5604	5.6656e-01	4.2413e+00
158	IHT000031	106.1749	108.5186	107.4287	5.2510e-01	4.2384e+00
159	IHT000032	107.4332	109.9722	108.6245	5.0724e-01	4.2415e+00
160	IHT000033	107.4144	109.9534	108.5823	5.3596e-01	4.2413e+00
161	IHT000034	94.3848	96.5332	95.1816	4.7978e-01	4.2090e+00
162	IHT000035	124.3990	126.5475	125.4146	5.3379e-01	4.2875e+00
163	IHT000036	92.8072	94.9557	93.7369	4.7607e-01	4.2058e+00

Test: May03_14 dif Date: Thu May 3 12:29:57 1990 Page: 1

Velocity 1 = 0.067100 (ft/sec)

Velocity 2 = 0.057400 (ft/sec)

Pressure Drop = 0.028800 (psi)

Tsat in = 0.040588 (deg F) Tsat out = 0.024323 (deg F)

Phi inner = 0.857002 (kBtu/hr-ft2) Phi outer = 0.014198 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1107	0.1507
1	TRF000002	0.1102	0.1493
2	TFM000001	0.0877	0.1027
3	TIN000001	0.1895	0.2217
4	TRV000001	0.0551	0.0647
5	TSR000001	4.5718	4.1095
6	TAO020136	1.5626	1.0773
7	TAO050136	2.1492	1.4201
8	TAO070136	0.4615	0.3053
9	TAO080136	7.2457	4.2163
10	TAO090136	2.4164	1.4054
11	TAO100136	1.1947	0.7142
12	TAO105136	0.0711	0.0418
13	TAO110136	2.9185	1.6436
14	TAO115136	4.9944	2.8091
15	TAO120136	4.8686	2.6198
16	TAO125136	3.2925	1.8384
17	TAO130136	0.8299	0.4771
18	TAO120048	2.3316	1.2340
19	TAO130048	0.2682	0.1486
20	TAO120224	6.2200	3.3333
21	TAO130224	1.5667	0.9085
22	TAO120312	5.9013	3.2351
23	TAO130312	1.8620	1.0207
24	TRT020000	3.3624	2.3790
25	TRT070000	2.8328	1.6731
26	TRT100000	1.4723	0.8078
27	TRT120000	2.0682	1.1184
28	TRT125000	2.4736	1.2872
29	TRT130000	1.8938	1.0282
30	EMPTY	0.1056	0.2673
31	TAF050136	0.4764	0.4353
32	TAF070136	0.7244	0.6096
33	TAF080136	9.3830	5.4176
34	TAF090136	0.8445	0.6635
35	TAF100136	0.4227	0.3227
36	TAF105136	0.2360	0.1774
37	TAF110136	0.9373	0.6329
38	TAF115136	0.1935	0.1396
39	TAF120136	1.8961	1.1765
40	TAF125136	0.0869	0.0605
41	TAF130136	0.0604	0.0415
42	TAF120048	0.1161	0.0778
43	TAF130048	0.4262	0.2771
44	TAF120224	0.7558	0.5289
45	TAF130224	0.5530	0.3770

#	Name	Abs Diff	%Diff
46	EMPTY	0.0690	0.1812
47	EMPTY	0.0781	0.1977
48	TAI130138	0.8146	0.4738
49	TAI130226	0.6786	0.3964
50	TAI130314	0.4241	0.2373
51	TAI130042	0.4712	0.2688
52	TRR130090	1.2242	1.0587
53	TSI000001	0.0523	0.1094
54	TSI000002	5.3249	4.3591
55	TSO000001	0.0222	0.0476
56	TSO000002	0.0518	0.0894
57	TAF020136	0.1475	0.1588
58	TAF120312	1.3145	0.8783
59	TAF130312	1.4141	0.8910
60	EMPTY	0.0370	1.6669
61	EMPTY	0.0367	1.6513
62	EMPTY	0.0376	1.6898
63	EMPTY	0.0362	1.6223
64	EMPTY	0.0170	1.5495
65	EMPTY	0.0158	1.4191
66	EMPTY	0.0163	1.4491
67	EMPTY	0.0149	1.3095
68	EMPTY	0.0150	1.3068
69	EMPTY	0.0151	1.2988
70	EMPTY	0.0166	1.4130
71	EMPTY	0.0172	1.4393
72	EMPTY	0.0176	1.4599
73	EMPTY	0.0154	1.2621
74	EMPTY	0.0149	1.2108
75	EMPTY	0.0150	1.2048
76	EMPTY	0.0144	1.1477
77	EMPTY	0.0144	1.1344
78	EMPTY	0.0147	1.1404
79	EMPTY	0.0149	1.1384
80	PAN020136	0.1572	1.8972
81	PAN050136	0.1862	0.9967
82	PAN070136	0.1221	0.9795
83	PAN080136	0.2884	4.3423
84	PAN090136	0.3524	5.4515
85	PAN100136	0.2045	3.4780
86	PAN105136	0.0046	0.1417
87	PAN110136	0.0748	2.8081
88	PAN115136	0.8912	23.8608
89	PAN120136	0.3708	10.3854
90	PAN125136	0.6989	28.7046
91	PAN130136	0.3556	10.5723
92	PAN120048	0.0686	0.9418
93	PAN130048	0.1755	3.0925
94	PAN120224	0.7340	10.9953
95	PAN130224	0.6317	12.6507
96	PAN120312	0.1648	2.6915
97	PAN130312	0.0885	1.5126
98	PAB000136	0.0275	0.0682
99	PAB100136	0.0156	0.0368
100	PAB125136	0.0174	0.0405

Test: May03_14

dif

Date: Thu May 3 12:29:57 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0195	0.0485
102	PRV000001	0.0415	0.2100
103	PSR000001	0.0537	0.1248
104	PFM000001	0.1630	1.6984
105	PAN000136	0.7965	1.0207
106	PFM000002	0.1403	1.4458
107	EMPTY	0.0020	125.0000
108	EMPTY	0.0034	0.0390
109	EMPTY	0.0008	20.5128
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.4257	0.4148
113	VPW000002	0.2265	0.1886
114	VPW000003	0.1718	0.1164
115	VPW000004	0.0039	0.0037
116	VPW000005	0.1094	0.0781
117	VPW000006	0.1679	0.1144
118	IPW000001	7.8484	1.4136
119	IPW000002	9.5223	0.7360
120	IPW000003	10.9198	0.8251
121	IPW000004	0.3614	0.0936
122	IPW000005	1.1522	0.4523
123	IPW000006	0.7129	0.2663
124	EMPTY	0.0022	10.9453
125	EMPTY	0.0010	7.6336
126	EMPTY	0.0019	12.2581
127	EMPTY	0.0002	1.1834
128	IHT000001	0.0625	0.0470
129	IHT000002	0.1446	0.1084
130	IHT000003	0.1835	0.1385
131	IHT000004	0.1640	0.1231
132	IHT000005	0.1953	0.1493
133	IHT000006	0.2187	0.1724
134	IHT000007	0.2539	0.1931
135	IHT000008	0.2422	0.1842
136	IHT000009	0.1914	0.1446
137	IHT000010	0.0508	0.0386
138	IHT000011	0.0429	0.0316
139	IHT000012	0.0313	0.0241
140	IHT000013	0.0899	0.0965
141	IHT000014	0.0312	0.0241
142	IHT000015	0.0898	0.0925
143	IHT000016	0.4023	0.4461
144	IHT000017	0.4610	0.4277
145	IHT000018	0.1133	0.1038
146	IHT000019	0.1211	0.1155
147	IHT000020	0.0977	0.0907
148	IHT000021	0.3164	27.5754
149	IHT000022	0.4336	0.4610
150	IHT000023	0.0430	0.0402
151	IHT000024	0.0039	0.0054
152	IHT000025	0.0938	0.0896
153	IHT000026	0.0312	0.0294
154	IHT000027	0.3906	0.4278
155	IHT000028	0.3985	0.4275

Test: May03_14 dif Date: Thu May 3 12:29:57 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0468	0.0439
157	IHT000030	0.0547	0.0504
158	IHT000031	0.1055	0.0981
159	IHT000032	0.1446	0.1329
160	IHT000033	0.1407	0.1294
161	IHT000034	0.2383	0.2497
162	IHT000035	0.1289	0.1027
163	IHT000036	0.1679	0.1788

Test: May03_15

sum1

Date: Thu May 3 12:49:20 1990

Page: 1

Velocity 1 = 6.0147 (ft/sec) (+/- 4.8838 %)

Velocity 2 = 6.0677 (ft/sec) (+/- 2.3298 %)

Pressure drop = -3.8529 (psi)

Tsats in = 267.6408 (deg F) Tsats out = 272.8584 (deg F)

Phi inner = 101.5045 (kBtu/hr-ft2) (+/- 1.4105 %)

Phi outer = 101.2200 (kBtu/hr-ft2) (+/- 1.6182 %)

D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)

L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.4130	74.0519	73.8517	1.9435e-01	1.9000e+00
1	TRF000002	73.8557	74.2791	74.1351	1.2426e-01	1.9000e+00
2	TFM000001	86.2460	87.3987	86.8557	2.3073e-01	1.9002e+00
3	TIN000001	86.5734	87.2039	86.8609	1.5283e-01	1.9002e+00
4	TRV000001	86.4945	87.2284	86.8412	1.8362e-01	1.9002e+00
5	TSR000001	123.5948	124.5089	124.1084	2.4226e-01	1.9020e+00
6	TAO020136	160.1075	161.2992	160.7014	2.5348e-01	1.9055e+00
7	TAO050136	165.4500	166.3357	165.9201	2.0889e-01	1.9062e+00
8	TAO070136	164.9088	165.9994	165.3947	2.3121e-01	1.9061e+00
9	TAO080136	184.6734	185.5471	185.2149	1.9337e-01	1.9089e+00
10	TAO090136	191.0444	191.8251	191.4199	1.7592e-01	1.9099e+00
11	TAO100136	187.8879	188.9567	188.3759	2.3348e-01	1.9094e+00
12	TAO105136	193.3506	194.6116	193.8378	2.5511e-01	1.9103e+00
13	TAO110136	198.5843	199.5417	199.0796	2.2326e-01	1.9112e+00
14	TAO115136	197.1134	198.2767	197.7240	2.9518e-01	1.9110e+00
15	TAO120136	206.1783	207.1324	206.7375	2.3069e-01	1.9126e+00
16	TAO125136	201.5506	202.7050	202.1875	2.8683e-01	1.9117e+00
17	TAO130136	197.8043	198.5717	198.1832	1.8305e-01	1.9110e+00
18	TAO120048	214.2010	214.9657	214.5321	2.0802e-01	1.9140e+00
19	TAO130048	207.0963	208.0544	207.6083	1.7804e-01	1.9127e+00
20	TAO120224	206.2654	207.1297	206.6132	1.9776e-01	1.9125e+00
21	TAO130224	195.8583	196.5298	196.2312	1.8363e-01	1.9107e+00
22	TAO120312	194.1647	195.0364	194.6624	2.2410e-01	1.9104e+00
23	TAO130312	207.7286	208.3995	208.0488	1.7606e-01	1.9128e+00
24	TRT020000	159.0479	160.0437	159.5358	2.4239e-01	1.9054e+00
25	TRT070000	187.6529	188.4344	188.0848	1.7557e-01	1.9094e+00
26	TRT100000	206.4325	207.5830	206.9680	2.2683e-01	1.9126e+00
27	TRT120000	210.5338	211.8730	211.2857	2.4365e-01	1.9134e+00
28	TRT125000	218.4960	219.2561	218.8822	1.8121e-01	1.9149e+00
29	TRT130000	209.7479	210.3230	210.0263	1.6104e-01	1.9132e+00
30	EMPTY	39.1464	39.8352	39.6240	1.7254e-01	1.9011e+00
31	TAF050136	116.9004	118.2299	117.5004	3.3857e-01	1.9015e+00
32	TAF070136	128.7543	130.1710	129.4855	3.0446e-01	1.9024e+00
33	TAF080136	183.6788	185.1299	184.3337	2.8086e-01	1.9088e+00
34	TAF090136	138.5782	139.5847	139.2039	2.8496e-01	1.9032e+00
35	TAF100136	145.6110	146.9164	146.2398	3.2944e-01	1.9039e+00
36	TAF105136	148.4981	149.3939	148.9341	2.5230e-01	1.9042e+00
37	TAF110136	166.1432	167.3251	166.8032	2.8784e-01	1.9063e+00
38	TAF115136	156.1797	157.5700	156.8693	3.6534e-01	1.9051e+00
39	TAF120136	180.9302	183.1688	182.2364	5.1311e-01	1.9085e+00
40	TAF125136	162.3067	164.1765	163.0453	3.7038e-01	1.9058e+00
41	TAF130136	165.1404	166.1269	165.7538	2.1497e-01	1.9062e+00
42	TAF120048	169.7655	171.2530	170.5446	3.6543e-01	1.9068e+00
43	TAF130048	176.3189	178.1791	177.3511	3.6375e-01	1.9077e+00
44	TAF120224	160.7881	162.0771	161.3773	3.0473e-01	1.9056e+00
45	TAF130224	166.3401	167.1346	166.7473	2.2424e-01	1.9063e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	2.1594e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.5644	1.0045e-01	1.9011e+00
48	TAI130138	198.6673	199.9227	199.2990	3.1827e-01	1.9112e+00
49	TAI130226	197.7945	198.9500	198.5252	2.3263e-01	1.9111e+00
50	TAI130314	205.9769	207.1319	206.5410	2.5879e-01	1.9125e+00
51	TAI130042	202.9707	204.1261	203.5581	2.4857e-01	1.9120e+00
52	TRR130090	124.6976	127.2366	126.1988	5.3684e-01	1.9021e+00
53	TSI000001	47.9131	48.4549	48.1884	1.5190e-01	1.9003e+00
54	TSI000002	113.9839	123.7838	118.7423	2.0370e+00	1.9016e+00
55	TSO000001	46.3856	47.0387	46.7579	1.9057e-01	1.9004e+00
56	TSO000002	59.7387	60.7033	60.1614	2.1389e-01	1.9001e+00
57	TAF020136	96.3067	97.4565	96.9149	2.8558e-01	1.9005e+00
58	TAF120312	168.6742	170.7415	169.7358	4.1923e-01	1.9067e+00
59	TAF130312	180.3625	181.9212	181.3233	3.2048e-01	1.9083e+00
60	EMPTY	2.7637	2.7734	2.7690	3.5908e-03	0.0000e+00
61	EMPTY	2.7637	2.7734	2.7680	2.3428e-03	0.0000e+00
62	EMPTY	2.7637	2.7686	2.7669	2.3365e-03	0.0000e+00
63	EMPTY	2.7686	2.7734	2.7705	2.4164e-03	0.0000e+00
64	EMPTY	1.3330	1.3330	1.3330	0.0000e+00	0.0000e+00
65	EMPTY	1.3477	1.3525	1.3480	1.3381e-03	0.0000e+00
66	EMPTY	1.3574	1.3623	1.3595	2.4344e-03	0.0000e+00
67	EMPTY	1.3721	1.3721	1.3721	0.0000e+00	0.0000e+00
68	EMPTY	1.3770	1.3818	1.3815	1.1714e-03	0.0000e+00
69	EMPTY	1.3916	1.3965	1.3931	2.2603e-03	0.0000e+00
70	EMPTY	1.4014	1.4111	1.4046	2.5362e-03	0.0000e+00
71	EMPTY	1.4209	1.4258	1.4217	1.8082e-03	0.0000e+00
72	EMPTY	1.4307	1.4355	1.4308	6.9053e-04	0.0000e+00
73	EMPTY	1.4453	1.4502	1.4456	1.1714e-03	0.0000e+00
74	EMPTY	1.4551	1.4551	1.4551	0.0000e+00	0.0000e+00
75	EMPTY	1.4648	1.4697	1.4691	1.6028e-03	0.0000e+00
76	EMPTY	1.4746	1.4795	1.4793	9.6655e-04	0.0000e+00
77	EMPTY	1.4893	1.4941	1.4923	2.3941e-03	0.0000e+00
78	EMPTY	1.5088	1.5137	1.5091	1.1714e-03	0.0000e+00
79	EMPTY	1.5283	1.5332	1.5284	6.9053e-04	0.0000e+00
80	PAN020136	-12.6119	-11.7727	-12.1313	1.7387e-01	8.7053e-01
81	PAN050136	-25.8294	-25.2191	-25.5273	1.3954e-01	1.6812e+00
82	PAN070136	-17.1291	-16.7476	-16.9735	9.6209e-02	8.7103e-01
83	PAN080136	-8.7444	-8.3629	-8.5460	8.7193e-02	8.7026e-01
84	PAN090136	-8.9820	-8.7531	-8.8874	6.0801e-02	8.7028e-01
85	PAN100136	-8.3731	-8.1442	-8.2846	5.1951e-02	8.7025e-01
86	PAN105136	-4.7690	-4.0823	-4.4867	1.9634e-01	8.7007e-01
87	PAN110136	-4.1103	-3.4236	-3.6937	1.6829e-01	8.7005e-01
88	PAN115136	-4.0310	-3.7258	-3.8982	7.5212e-02	8.7005e-01
89	PAN120136	-5.3617	-4.8277	-5.1252	1.2919e-01	8.7009e-01
90	PAN125136	-4.1469	-3.6128	-3.8630	1.1641e-01	8.7005e-01
91	PAN130136	-4.3172	-3.9357	-4.0837	9.1721e-02	8.7006e-01
92	PAN120048	-10.0369	-8.8925	-9.3610	3.5785e-01	8.7031e-01
93	PAN130048	-8.2659	-7.4267	-7.8845	3.0750e-01	8.7022e-01
94	PAN120224	-8.4288	-7.5133	-8.0229	2.7245e-01	8.7023e-01
95	PAN130224	-7.9506	-7.1876	-7.5111	2.1500e-01	8.7020e-01
96	PAN120312	-9.0085	-8.7033	-8.8711	8.7193e-02	8.7028e-01
97	PAN130312	-7.6849	-7.3798	-7.5018	8.5820e-02	8.7020e-01
98	PAB000136	40.0393	40.3139	40.1830	6.6696e-02	5.8864e-01
99	PAB100136	42.9126	43.0957	43.0225	4.5307e-02	5.8989e-01
100	PAB125136	43.7753	43.9584	43.8348	5.0865e-02	5.9026e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.3045	40.1702	9.9415e-02	7.5669e-01
102	PRV000001	19.8484	19.9704	19.8728	4.9324e-02	7.5164e-01
103	PSR000001	44.0606	44.1827	44.1070	5.9853e-02	7.5806e-01
104	PFM000001	5.2484	5.6146	5.4480	9.9073e-02	5.0019e-01
105	PAN000136	-108.4369	-105.2326	-106.6700	6.9214e-01	4.9272e+00
106	PFM000002	5.4466	5.6144	5.5460	4.5965e-02	2.0048e-01
107	EMPTY	-0.0049	0.0000	-0.0044	1.4797e-03	0.0000e+00
108	EMPTY	-9.2188	-8.7305	-9.0272	1.0431e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0005	1.4797e-03	0.0000e+00
112	VPW000001	101.1832	101.7691	101.4917	1.1223e-01	1.0134e+00
113	VPW000002	119.5650	120.3463	119.9751	1.8613e-01	1.0836e+00
114	VPW000003	147.4534	148.4300	147.8558	2.3481e-01	1.2013e+00
115	VPW000004	104.9429	106.1148	105.4429	2.7098e-01	1.0278e+00
116	VPW000005	139.5545	141.3123	140.2694	3.2922e-01	1.1681e+00
117	VPW000006	146.4506	147.8178	146.9624	2.5539e-01	1.1973e+00
118	IPW000001	547.7825	553.6395	549.9301	1.5403e+00	9.1915e+00
119	IPW000002	1291.5154	1303.2230	1298.7352	2.6810e+00	1.3072e+01
120	IPW000003	1320.5249	1334.1749	1328.2080	3.0109e+00	1.3256e+01
121	IPW000004	381.9580	387.8174	384.7121	1.1366e+00	3.6383e+00
122	IPW000005	253.4396	257.3455	255.3535	8.4184e-01	2.8407e+00
123	IPW000006	266.5734	269.5031	267.6670	5.9647e-01	2.9106e+00
124	EMPTY	-0.0293	-0.0195	-0.0229	2.6908e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0159	2.3778e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0188	2.4878e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.4470e-03	0.0000e+00
128	IHT000001	131.8923	134.0407	132.9274	5.1637e-01	4.3101e+00
129	IHT000002	132.4069	134.5553	133.3990	4.9259e-01	4.3116e+00
130	IHT000003	131.8059	133.5637	132.5714	4.6994e-01	4.3090e+00
131	IHT000004	132.4745	134.4276	133.2714	5.2026e-01	4.3112e+00
132	IHT000005	130.0330	131.9862	130.8807	4.9064e-01	4.3038e+00
133	IHT000006	126.0930	128.0461	126.9523	5.1599e-01	4.2920e+00
134	IHT000007	130.5889	132.5421	131.5537	5.7237e-01	4.3059e+00
135	IHT000008	130.4199	132.7637	131.5918	5.4534e-01	4.3060e+00
136	IHT000009	131.5017	133.8454	132.4039	5.4803e-01	4.3085e+00
137	IHT000010	130.3260	133.4510	131.4120	5.9472e-01	4.3055e+00
138	IHT000011	134.7468	137.4812	135.5868	5.4712e-01	4.3184e+00
139	IHT000012	128.6433	131.5730	129.4207	5.6288e-01	4.2994e+00
140	IHT000013	91.8870	95.4026	92.9417	6.0875e-01	4.2040e+00
141	IHT000014	128.0236	131.5392	129.0353	6.0963e-01	4.2983e+00
142	IHT000015	95.7219	99.0422	96.8117	5.7736e-01	4.2127e+00
143	IHT000016	88.0671	90.0203	88.9031	4.4824e-01	4.1953e+00
144	IHT000017	106.0547	108.5938	106.8516	5.2916e-01	4.2369e+00
145	IHT000018	107.8313	110.3703	109.1633	5.2451e-01	4.2428e+00
146	IHT000019	103.9626	106.3063	104.9548	5.3502e-01	4.2322e+00
147	IHT000020	106.7909	109.3299	107.7323	5.5340e-01	4.2392e+00
148	IHT000021	-2.5653	0.5597	-1.5224	6.5389e-01	4.1000e+00
149	IHT000022	91.9959	94.5350	92.8084	5.1954e-01	4.2037e+00
150	IHT000023	105.9946	107.9477	106.8345	4.7882e-01	4.2369e+00
151	IHT000024	71.2740	73.4225	72.1880	4.7913e-01	4.1631e+00
152	IHT000025	103.7748	106.1185	104.6733	4.7021e-01	4.2315e+00
153	IHT000026	105.2622	107.6059	106.0317	4.8070e-01	4.2349e+00
154	IHT000027	89.4644	91.8082	90.1245	4.8310e-01	4.1979e+00
155	IHT000028	90.8278	93.3669	92.1169	7.2006e-01	4.2022e+00

Test: May03_15

sum1

Date: Thu May 3 12:49:20 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2584	107.9928	106.6646	6.8345e-01	4.2365e+00
157	IHT000030	107.2792	110.2088	108.5995	6.7261e-01	4.2414e+00
158	IHT000031	106.1749	109.1046	107.4522	6.7105e-01	4.2385e+00
159	IHT000032	107.2378	110.1675	108.5972	6.5073e-01	4.2414e+00
160	IHT000033	107.2190	110.1487	108.5198	6.5270e-01	4.2412e+00
161	IHT000034	93.9941	96.5332	95.0449	5.6344e-01	4.2087e+00
162	IHT000035	124.2037	126.7428	125.2037	5.6996e-01	4.2869e+00
163	IHT000036	92.8072	94.5650	93.6001	4.8232e-01	4.2055e+00

Velocity 1 = 5.0316 (ft/sec) (+/- 6.8064 %)
Velocity 2 = 5.0860 (ft/sec) (+/- 2.8626 %)
Pressure drop = -4.2874 (psi)
Tsat in = 268.1283 (deg F) Tsat out = 273.9387 (deg F)
Phi inner = 102.3927 (kBtu/hr-ft2) (+/- 1.4081 %)
Phi outer = 101.2920 (kBtu/hr-ft2) (+/- 1.6186 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0519	74.4776	74.3073	1.6654e-01	1.9000e+00
1	TRF000002	74.4908	74.9140	74.6304	1.0992e-01	1.9000e+00
2	TFM000001	87.1894	87.9234	87.5272	1.9202e-01	1.9002e+00
3	TIN000001	87.2032	87.9387	87.4617	1.5914e-01	1.9002e+00
4	TRV000001	87.2290	88.0654	87.6918	2.2270e-01	1.9002e+00
5	TSR000001	129.0635	131.9902	130.5109	8.3264e-01	1.9025e+00
6	TAO020136	169.5155	170.7980	170.2476	2.5614e-01	1.9068e+00
7	TAO050136	177.8747	178.7517	178.3371	1.7812e-01	1.9079e+00
8	TAO070136	177.5516	178.8288	178.2610	2.7092e-01	1.9079e+00
9	TAO080136	200.2803	200.9532	200.5826	1.6125e-01	1.9115e+00
10	TAO090136	207.5177	208.3804	207.8995	2.2199e-01	1.9128e+00
11	TAO100136	205.8415	206.9928	206.1697	2.1504e-01	1.9125e+00
12	TAO105136	210.3285	212.0540	211.1359	3.7208e-01	1.9134e+00
13	TAO110136	217.4852	218.7127	218.0946	2.5465e-01	1.9147e+00
14	TAO115136	214.7542	216.2863	215.6104	3.3704e-01	1.9142e+00
15	TAO120136	224.0698	225.0122	224.5427	1.9007e-01	1.9160e+00
16	TAO125136	217.9996	220.4698	218.8116	5.2099e-01	1.9149e+00
17	TAO130136	215.5828	216.2417	215.8753	1.5906e-01	1.9143e+00
18	TAO120048	234.8682	235.5282	235.2699	1.6138e-01	1.9183e+00
19	TAO130048	227.2307	227.9862	227.6480	1.6099e-01	1.9167e+00
20	TAO120224	225.6268	226.6700	226.0765	2.1994e-01	1.9163e+00
21	TAO130224	214.3406	215.0063	214.7685	1.7930e-01	1.9141e+00
22	TAO120312	213.1312	213.8970	213.5583	1.9546e-01	1.9138e+00
23	TAO130312	228.1613	228.9171	228.4994	1.7813e-01	1.9168e+00
24	TRT020000	169.1694	170.1579	169.6223	2.5184e-01	1.9067e+00
25	TRT070000	203.8160	204.5912	204.2207	1.7336e-01	1.9121e+00
26	TRT100000	226.2211	227.1672	226.7151	2.0956e-01	1.9165e+00
27	TRT120000	231.7134	232.6568	232.2963	2.0418e-01	1.9177e+00
28	TRT125000	240.1059	241.2271	240.6722	2.4868e-01	1.9195e+00
29	TRT130000	230.6170	231.1829	230.9318	1.4611e-01	1.9174e+00
30	EMPTY	39.1464	40.0646	39.6424	2.1435e-01	1.9011e+00
31	TAF050136	123.1203	124.2388	123.7363	2.7204e-01	1.9019e+00
32	TAF070136	137.2171	138.6235	137.9105	3.1532e-01	1.9031e+00
33	TAF080136	199.0772	200.7065	199.9498	3.8460e-01	1.9113e+00
34	TAF090136	148.9046	149.9033	149.4019	2.4164e-01	1.9042e+00
35	TAF100136	157.2139	159.1050	158.1996	3.9571e-01	1.9052e+00
36	TAF105136	160.6532	162.6204	161.7961	4.3056e-01	1.9057e+00
37	TAF110136	181.5124	183.4579	182.5879	4.3476e-01	1.9085e+00
38	TAF115136	170.3115	171.8835	171.1031	3.9678e-01	1.9069e+00
39	TAF120136	198.3505	200.7540	199.3140	5.2018e-01	1.9112e+00
40	TAF125136	177.8595	179.6105	178.6825	4.2423e-01	1.9079e+00
41	TAF130136	180.7358	181.6133	181.1429	2.1657e-01	1.9083e+00
42	TAF120048	186.0418	187.8058	187.1223	3.4945e-01	1.9092e+00
43	TAF130048	194.1276	196.2541	195.3863	4.0464e-01	1.9106e+00
44	TAF120224	175.7797	177.0546	176.3271	2.8926e-01	1.9076e+00
45	TAF130224	182.3383	183.2227	182.7804	2.0526e-01	1.9085e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.9844e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6424	8.4999e-02	1.9011e+00
48	TAI130138	218.7181	220.2423	219.5621	3.6662e-01	1.9150e+00
49	TAI130226	218.4354	219.5747	219.0183	2.3884e-01	1.9149e+00
50	TAI130314	227.6829	228.9170	228.4935	2.8188e-01	1.9168e+00
51	TAI130042	224.6778	225.7216	225.2299	2.7305e-01	1.9162e+00
52	TRR130090	137.2410	142.5661	140.2789	1.4674e+00	1.9033e+00
53	TSI000001	47.9146	48.6725	48.3023	2.0167e-01	1.9003e+00
54	TSI000002	122.9715	124.8017	123.7745	4.8236e-01	1.9019e+00
55	TSO000001	46.2749	47.0369	46.7430	1.9337e-01	1.9004e+00
56	TSO000002	61.2390	62.2029	61.6955	2.0735e-01	1.9000e+00
57	TAF020136	98.7104	100.4844	99.5351	3.6367e-01	1.9006e+00
58	TAF120312	186.0948	187.5540	186.8208	3.0324e-01	1.9092e+00
59	TAF130312	199.3432	201.1707	200.1461	4.4162e-01	1.9114e+00
60	EMPTY	3.2178	3.2422	3.2300	5.2432e-03	0.0000e+00
61	EMPTY	3.2178	3.2324	3.2259	3.8975e-03	0.0000e+00
62	EMPTY	3.2178	3.2275	3.2216	3.0067e-03	0.0000e+00
63	EMPTY	3.2178	3.2275	3.2227	3.1195e-03	0.0000e+00
64	EMPTY	1.5283	1.5381	1.5349	2.5362e-03	0.0000e+00
65	EMPTY	1.5479	1.5527	1.5480	9.6655e-04	0.0000e+00
66	EMPTY	1.5576	1.5625	1.5579	1.1714e-03	0.0000e+00
67	EMPTY	1.5674	1.5723	1.5691	2.3675e-03	0.0000e+00
68	EMPTY	1.5771	1.5820	1.5772	6.9053e-04	0.0000e+00
69	EMPTY	1.5869	1.5918	1.5892	2.4583e-03	0.0000e+00
70	EMPTY	1.5918	1.6016	1.5987	2.6267e-03	0.0000e+00
71	EMPTY	1.6162	1.6211	1.6164	9.6655e-04	0.0000e+00
72	EMPTY	1.6211	1.6260	1.6244	2.3008e-03	0.0000e+00
73	EMPTY	1.6357	1.6406	1.6361	1.3381e-03	0.0000e+00
74	EMPTY	1.6406	1.6504	1.6456	1.2041e-03	0.0000e+00
75	EMPTY	1.6553	1.6602	1.6562	1.8950e-03	0.0000e+00
76	EMPTY	1.6602	1.6699	1.6650	9.8648e-04	0.0000e+00
77	EMPTY	1.6748	1.6797	1.6796	6.9053e-04	0.0000e+00
78	EMPTY	1.6943	1.6992	1.6950	1.7115e-03	0.0000e+00
79	EMPTY	1.7139	1.7188	1.7143	1.3381e-03	0.0000e+00
80	PAN020136	-14.0615	-13.5274	-13.7731	1.1252e-01	8.7068e-01
81	PAN050136	-28.5760	-28.1182	-28.3227	1.3651e-01	1.6815e+00
82	PAN070136	-19.1890	-18.7313	-18.9968	1.1456e-01	8.7130e-01
83	PAN080136	-9.6599	-8.9732	-9.3349	1.3332e-01	8.7031e-01
84	PAN090136	-10.9656	-9.7449	-10.6314	1.9612e-01	8.7041e-01
85	PAN100136	-9.0597	-7.8390	-8.3090	2.2196e-01	8.7025e-01
86	PAN105136	-6.5237	-3.3957	-5.4754	1.0811e+00	8.7011e-01
87	PAN110136	-6.0176	-1.9740	-3.8738	1.3369e+00	8.7005e-01
88	PAN115136	-6.2435	-5.0991	-5.5096	2.2856e-01	8.7011e-01
89	PAN120136	-6.9639	-5.8958	-6.5962	2.7603e-01	8.7016e-01
90	PAN125136	-5.0624	3.1774	-3.3580	1.6670e+00	8.7004e-01
91	PAN130136	-6.6823	-0.1973	-2.4160	1.6643e+00	8.7002e-01
92	PAN120048	-11.9443	-7.2141	-8.4455	1.3604e+00	8.7026e-01
93	PAN130048	-9.4103	-9.0289	-9.2059	8.0742e-02	8.7030e-01
94	PAN120224	-11.9384	-5.6060	-7.6216	1.7713e+00	8.7021e-01
95	PAN130224	-8.5609	-8.1795	-8.3717	1.0136e-01	8.7025e-01
96	PAN120312	-12.3654	-8.9322	-10.2688	1.1995e+00	8.7038e-01
97	PAN130312	-6.9983	-5.8539	-6.4581	2.9076e-01	8.7015e-01
98	PAB000136	40.3597	40.6801	40.5126	6.7080e-02	5.8878e-01
99	PAB100136	43.5535	43.7366	43.6642	5.0731e-02	5.9018e-01
100	PAB125136	44.2330	44.7366	44.6249	1.0346e-01	5.9063e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3045	40.6707	40.5266	7.6770e-02	7.5681e-01
102	PRV000001	19.8484	19.8484	19.8483	1.1560e-05	7.5164e-01
103	PSR000001	44.7930	44.9151	44.8907	4.9324e-02	7.5835e-01
104	PFM000001	3.6920	3.9667	3.7891	8.3562e-02	5.0009e-01
105	PAN000136	-119.8810	-117.5922	-118.7000	5.7822e-01	4.9289e+00
106	PFM000002	3.8022	3.9365	3.8730	3.0376e-02	2.0023e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-9.4580	-9.1162	-9.2531	8.3087e-02	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	1.5314e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
112	VPW000001	100.7925	101.1832	100.9214	1.0885e-01	1.0113e+00
113	VPW000002	119.7604	120.1510	119.9400	1.1049e-01	1.0835e+00
114	VPW000003	147.6487	148.0394	147.8676	1.1599e-01	1.2013e+00
115	VPW000004	105.3335	105.7241	105.5210	1.2453e-01	1.0281e+00
116	VPW000005	140.1405	140.5311	140.3007	1.2901e-01	1.1682e+00
117	VPW000006	146.8412	147.2318	147.0014	1.1632e-01	1.1975e+00
118	IPW000001	530.2114	536.0684	533.3741	1.6210e+00	9.1304e+00
119	IPW000002	1318.8333	1322.7357	1320.7455	1.3932e+00	1.3209e+01
120	IPW000003	1338.0748	1343.9249	1341.1949	1.2458e+00	1.3337e+01
121	IPW000004	380.4932	382.4463	381.0597	4.5592e-01	3.6142e+00
122	IPW000005	253.9278	255.3925	254.9434	4.1662e-01	2.8384e+00
123	IPW000006	268.0382	269.5031	268.4580	3.6924e-01	2.9151e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.7239e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.8744e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0182	2.7971e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0167	2.6267e-03	0.0000e+00
128	IHT000001	131.8923	134.0407	132.8024	5.5329e-01	4.3097e+00
129	IHT000002	132.4069	134.5553	133.1880	5.3670e-01	4.3109e+00
130	IHT000003	131.6106	133.7590	132.3878	4.7759e-01	4.3084e+00
131	IHT000004	132.0838	134.0370	132.9901	4.7311e-01	4.3103e+00
132	IHT000005	129.6424	131.5955	130.5917	4.6356e-01	4.3030e+00
133	IHT000006	125.7024	127.6555	126.7296	4.3010e-01	4.2914e+00
134	IHT000007	130.3936	132.3468	131.3897	4.8848e-01	4.3054e+00
135	IHT000008	130.4199	132.7637	131.4473	4.9726e-01	4.3056e+00
136	IHT000009	131.3064	133.4548	132.2672	5.0198e-01	4.3081e+00
137	IHT000010	130.3260	133.0604	131.3925	5.7074e-01	4.3054e+00
138	IHT000011	134.3562	136.8953	135.5868	5.6943e-01	4.3184e+00
139	IHT000012	128.0574	130.5964	129.4051	5.9090e-01	4.2994e+00
140	IHT000013	91.6917	94.2308	92.9222	5.5137e-01	4.2040e+00
141	IHT000014	127.8283	130.1720	129.0275	5.2498e-01	4.2982e+00
142	IHT000015	95.7219	97.8704	96.8625	5.0895e-01	4.2129e+00
143	IHT000016	87.4812	89.4343	88.4929	4.8759e-01	4.1944e+00
144	IHT000017	106.0547	109.1797	107.4531	7.1175e-01	4.2385e+00
145	IHT000018	108.2219	110.5657	109.2570	6.1795e-01	4.2431e+00
146	IHT000019	103.9626	106.3063	105.1579	5.3034e-01	4.2327e+00
147	IHT000020	106.5956	109.1346	107.8690	5.1485e-01	4.2395e+00
148	IHT000021	-2.9560	0.3644	-1.2880	6.3529e-01	4.1000e+00
149	IHT000022	91.0194	93.7538	92.3241	5.1515e-01	4.2027e+00
150	IHT000023	105.7993	108.1430	106.9087	5.0136e-01	4.2371e+00
151	IHT000024	71.0787	73.2271	72.1998	4.5815e-01	4.1631e+00
152	IHT000025	103.7748	105.7279	104.7827	4.5568e-01	4.2318e+00
153	IHT000026	105.2622	107.2153	106.0942	4.7648e-01	4.2350e+00
154	IHT000027	88.8785	90.8316	89.6480	4.8070e-01	4.1969e+00
155	IHT000028	90.4372	92.7809	91.5310	5.8127e-01	4.2009e+00

Test: May03_16

sum2

Date: Thu May 3 13:08:05 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.9928	106.5787	5.9785e-01	4.2363e+00
157	IHT000030	107.4745	109.8182	108.5253	5.6344e-01	4.2412e+00
158	IHT000031	106.1749	108.5186	107.3662	5.5137e-01	4.2382e+00
159	IHT000032	107.6285	109.5816	108.5933	5.0132e-01	4.2414e+00
160	IHT000033	107.6097	109.5628	108.5277	5.0878e-01	4.2412e+00
161	IHT000034	94.3848	96.3379	95.0801	4.2160e-01	4.2088e+00
162	IHT000035	124.3990	126.3522	125.2388	4.4337e-01	4.2870e+00
163	IHT000036	93.0025	94.7604	93.6509	4.1468e-01	4.2056e+00

Velocity 1 = 0.005900 (ft/sec)
 Velocity 2 = 0.008000 (ft/sec)
 Pressure Drop = 0.016600 (psi)
 Tsat in = 0.080200 (deg F) Tsat out = 0.063110 (deg F)
 Phi inner = 0.318901 (kBtu/hr-ft2) Phi outer = 0.033195 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF0000001	0.0596	0.0807
1	TRF0000002	0.0762	0.1028
2	TFM0000001	0.1845	0.2124
3	TIN0000001	0.1345	0.1548
4	TRV0000001	0.3095	0.3564
5	TSR0000001	2.0913	1.6851
6	TAO020136	0.0436	0.0271
7	TAO050136	0.1135	0.0684
8	TAO070136	0.6703	0.4053
9	TAO080136	0.1661	0.0897
10	TAO090136	0.0002	0.0001
11	TAO100136	0.0195	0.0104
12	TAO105136	0.0038	0.0020
13	TAO110136	0.1191	0.0598
14	TAO115136	0.0115	0.0058
15	TAO120136	0.0425	0.0206
16	TAO125136	0.0155	0.0077
17	TAO130136	0.1017	0.0513
18	TAO120048	0.0724	0.0337
19	TAO130048	0.0380	0.0183
20	TAO120224	0.0499	0.0242
21	TAO130224	0.0915	0.0466
22	TAO120312	0.8677	0.4457
23	TAO130312	0.0228	0.0110
24	TRT020000	0.0396	0.0248
25	TRT070000	0.0270	0.0144
26	TRT100000	0.0687	0.0332
27	TRT120000	0.1260	0.0596
28	TRT125000	0.0676	0.0309
29	TRT130000	0.0074	0.0035
30	EMPTY	0.0505	0.1274
31	TAF050136	0.0941	0.0801
32	TAF070136	0.0198	0.0153
33	TAF080136	0.1000	0.0542
34	TAF090136	0.8530	0.6128
35	TAF100136	0.1404	0.0960
36	TAF105136	0.1077	0.0723
37	TAF110136	0.2757	0.1653
38	TAF115136	0.0478	0.0305
39	TAF120136	0.2026	0.1112
40	TAF125136	0.0595	0.0365
41	TAF130136	0.0435	0.0262
42	TAF120048	0.0194	0.0114
43	TAF130048	0.0666	0.0375
44	TAF120224	0.0436	0.0270
45	TAF130224	0.0440	0.0264

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0230	0.0581
48	TAI130138	0.1004	0.0504
49	TAI130226	0.0695	0.0350
50	TAI130314	0.0307	0.0149
51	TAI130042	0.2002	0.0983
52	TRR130090	0.2111	0.1673
53	TSI000001	0.0647	0.1343
54	TSI000002	7.5865	6.3890
55	TSO000001	0.0657	0.1405
56	TSO000002	0.0001	0.0002
57	TAF020136	0.0457	0.0472
58	TAF120312	0.0355	0.0209
59	TAF130312	0.0080	0.0044
60	EMPTY	0.0015	0.0542
61	EMPTY	0.0007	0.0253
62	EMPTY	0.0006	0.0217
63	EMPTY	0.0001	0.0036
64	EMPTY	0.0005	0.0375
65	EMPTY	0.0001	0.0074
66	EMPTY	0.0005	0.0368
67	EMPTY	0.0001	0.0073
68	EMPTY	0.0003	0.0217
69	EMPTY	0.0002	0.0144
70	EMPTY	0.0001	0.0071
71	EMPTY	0.0010	0.0703
72	EMPTY	0.0012	0.0839
73	EMPTY	0.0001	0.0069
74	EMPTY	0.0008	0.0550
75	EMPTY	0.0004	0.0272
76	EMPTY	0.0001	0.0068
77	EMPTY	0.0013	0.0871
78	EMPTY	0.0016	0.1060
79	EMPTY	0.0017	0.1112
80	PAN020136	0.0153	0.1261
81	PAN050136	0.0061	0.0239
82	PAN070136	0.0198	0.1167
83	PAN080136	0.0122	0.1428
84	PAN090136	0.0000	0.0000
85	PAN100136	0.0168	0.2028
86	PAN105136	0.0794	1.7697
87	PAN110136	0.1145	3.0999
88	PAN115136	0.0183	0.4694
89	PAN120136	0.5340	10.4191
90	PAN125136	0.4334	11.2193
91	PAN130136	0.0580	1.4203
92	PAN120048	0.2136	2.2818
93	PAN130048	0.3707	4.7016
94	PAN120224	0.0823	1.0258
95	PAN130224	0.0656	0.8734
96	PAN120312	0.0183	0.2063
97	PAN130312	0.0244	0.3253
98	PAB000136	0.0540	0.1344
99	PAB100136	0.0577	0.1341
100	PAB125136	0.0458	0.1045

Test: May03_15

dif

Date: Thu May 3 12:49:20 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1758	0.4376
102	PRV000001	0.0147	0.0740
103	PSR000001	0.0562	0.1274
104	PFM000001	0.0110	0.2019
105	PAN000136	0.4577	0.4291
106	PFM000002	0.0151	0.2723
107	EMPTY	0.0009	20.4545
108	EMPTY	0.0064	0.0709
109	EMPTY	0.0003	21.4286
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	80.0000
112	VPW000001	0.2109	0.2078
113	VPW000002	0.0039	0.0032
114	VPW000003	0.0234	0.0158
115	VPW000004	0.0390	0.0370
116	VPW000005	0.1797	0.1281
117	VPW000006	0.1055	0.0718
118	IPW000001	1.2105	0.2201
119	IPW000002	4.6050	0.3546
120	IPW000003	4.0171	0.3024
121	IPW000004	2.7149	0.7057
122	IPW000005	1.0156	0.3977
123	IPW000006	0.5957	0.2226
124	EMPTY	0.0009	3.9301
125	EMPTY	0.0014	8.8050
126	EMPTY	0.0009	4.7872
127	EMPTY	0.0004	2.3121
128	IHT000001	0.1016	0.0764
129	IHT000002	0.1914	0.1435
130	IHT000003	0.2148	0.1620
131	IHT000004	0.2383	0.1788
132	IHT000005	0.2304	0.1760
133	IHT000006	0.1914	0.1508
134	IHT000007	0.1562	0.1187
135	IHT000008	0.1250	0.0950
136	IHT000009	0.1523	0.1150
137	IHT000010	0.1015	0.0772
138	IHT000011	0.0430	0.0317
139	IHT000012	0.0273	0.0211
140	IHT000013	0.0391	0.0421
141	IHT000014	0.0313	0.0243
142	IHT000015	0.1407	0.1453
143	IHT000016	0.0390	0.0439
144	IHT000017	0.6132	0.5739
145	IHT000018	0.2382	0.2182
146	IHT000019	0.2265	0.2158
147	IHT000020	0.2226	0.2066
148	IHT000021	0.2930	19.2459
149	IHT000022	0.0195	0.0210
150	IHT000023	0.1367	0.1280
151	IHT000024	0.1407	0.1949
152	IHT000025	0.1875	0.1791
153	IHT000026	0.1953	0.1842
154	IHT000027	0.0078	0.0087
155	IHT000028	0.0430	0.0467

Test: May03_15 dif Date: Thu May 3 12:49:20 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1719	0.1612
157	IHT000030	0.1367	0.1259
158	IHT000031	0.1484	0.1381
159	IHT000032	0.1836	0.1691
160	IHT000033	0.1836	0.1692
161	IHT000034	0.1797	0.1891
162	IHT000035	0.1328	0.1061
163	IHT000036	0.1719	0.1837

Test: May03_16 sum1 Date: Thu May 3 13:08:05 1990 Page: 1

Velocity 1 = 5.0255 (ft/sec) (+/- 6.8219 %)
 Velocity 2 = 5.0775 (ft/sec) (+/- 2.8690 %)
 Pressure drop = -4.2987 (psi)
 Tsat in = 267.9093 (deg F) Tsat out = 273.8554 (deg F)
 Phi inner = 102.0085 (kBtu/hr-ft2) (+/- 1.4092 %)
 Phi outer = 101.6040 (kBtu/hr-ft2) (+/- 1.6170 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8390	74.4776	74.1881	1.8123e-01	1.9000e+00
1	TRF000002	74.2791	74.7024	74.4992	1.2064e-01	1.9000e+00
2	TFM000001	87.0846	87.9234	87.3866	1.8549e-01	1.9002e+00
3	TIN000001	87.0979	87.7286	87.3588	1.5636e-01	1.9002e+00
4	TRV000001	87.1237	88.1706	87.6097	2.5346e-01	1.9002e+00
5	TSR000001	127.6475	131.3854	129.9550	1.0177e+00	1.9024e+00
6	TAO020136	169.8119	170.7982	170.3760	2.5369e-01	1.9068e+00
7	TAO050136	177.7769	178.8500	178.3266	2.1735e-01	1.9079e+00
8	TAO070136	177.0598	178.2392	177.6695	2.8286e-01	1.9078e+00
9	TAO080136	200.1840	201.1447	200.5951	2.0371e-01	1.9115e+00
10	TAO090136	207.4219	208.1890	207.8819	1.7323e-01	1.9128e+00
11	TAO100136	205.5533	206.7052	206.1330	2.5870e-01	1.9124e+00
12	TAO105136	210.4242	212.5331	211.0804	4.0732e-01	1.9134e+00
13	TAO110136	217.4831	218.5242	218.1443	2.5651e-01	1.9147e+00
14	TAO115136	215.5207	217.0521	216.2561	3.3346e-01	1.9144e+00
15	TAO120136	224.6323	225.8552	225.1453	2.7081e-01	1.9161e+00
16	TAO125136	219.4249	222.6532	221.1155	6.3353e-01	1.9153e+00
17	TAO130136	217.6448	218.4021	218.0381	1.8267e-01	1.9147e+00
18	TAO120048	234.8683	235.6223	235.2790	1.9855e-01	1.9183e+00
19	TAO130048	228.5494	229.3058	228.8786	1.6995e-01	1.9169e+00
20	TAO120224	226.1956	227.6160	226.7149	2.6740e-01	1.9165e+00
21	TAO130224	216.1377	217.2759	216.6082	2.3225e-01	1.9144e+00
22	TAO120312	210.6416	211.4087	210.9870	1.8574e-01	1.9133e+00
23	TAO130312	229.7647	230.4260	230.0215	1.6871e-01	1.9172e+00
24	TRT020000	169.5654	170.4548	170.0081	2.2690e-01	1.9067e+00
25	TRT070000	203.6234	204.3975	204.0993	2.0375e-01	1.9121e+00
26	TRT100000	226.2209	227.1672	226.5616	2.3877e-01	1.9164e+00
27	TRT120000	231.9016	233.0339	232.5016	2.7409e-01	1.9177e+00
28	TRT125000	242.0634	243.0907	242.5411	2.3984e-01	1.9200e+00
29	TRT130000	231.9340	232.5009	232.1987	1.7049e-01	1.9176e+00
30	EMPTY	39.1464	40.0646	39.6102	2.4755e-01	1.9011e+00
31	TAF050136	122.8151	124.6451	123.6321	3.8656e-01	1.9019e+00
32	TAF070136	137.0151	138.4230	137.8516	3.0481e-01	1.9031e+00
33	TAF080136	199.0772	200.7065	199.7670	3.1270e-01	1.9113e+00
34	TAF090136	148.1050	149.4033	148.7406	2.7444e-01	1.9042e+00
35	TAF100136	157.3139	158.7071	157.9787	3.7428e-01	1.9052e+00
36	TAF105136	160.7503	162.6204	161.8166	4.0013e-01	1.9057e+00
37	TAF110136	181.8028	183.4570	182.4648	3.9080e-01	1.9085e+00
38	TAF115136	169.8188	171.6871	170.6095	3.9180e-01	1.9068e+00
39	TAF120136	198.6379	201.7131	199.5730	5.8702e-01	1.9113e+00
40	TAF125136	177.6629	180.5815	178.8467	6.4654e-01	1.9080e+00
41	TAF130136	180.8321	181.9045	181.2693	2.5258e-01	1.9083e+00
42	TAF120048	186.1408	188.0030	187.0544	3.5934e-01	1.9092e+00
43	TAF130048	194.2238	196.0610	195.1946	5.1038e-01	1.9105e+00
44	TAF120224	175.6818	177.8386	176.7054	4.9280e-01	1.9077e+00
45	TAF130224	182.3393	183.4190	182.8537	2.6624e-01	1.9086e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0526	2.3021e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6194	7.1990e-02	1.9011e+00
48	TAI130138	218.5275	219.8614	219.2211	3.1343e-01	1.9149e+00
49	TAI130226	218.2442	219.3850	218.6895	2.6761e-01	1.9148e+00
50	TAI130314	227.4930	229.1064	228.3247	3.6707e-01	1.9168e+00
51	TAI130042	224.3926	225.5319	224.9318	2.9431e-01	1.9161e+00
52	TRR130090	135.8302	140.4577	138.5201	1.1159e+00	1.9032e+00
53	TSI000001	47.5901	48.5643	48.0577	1.9004e-01	1.9003e+00
54	TSI000002	107.3071	115.9301	111.4432	2.5170e+00	1.9012e+00
55	TSO000001	46.0568	47.0369	46.5277	2.1148e-01	1.9004e+00
56	TSO000002	61.2390	62.2029	61.6374	2.4005e-01	1.9000e+00
57	TAF020136	98.8157	100.3817	99.5294	3.4430e-01	1.9006e+00
58	TAF120312	185.9976	187.7483	186.7719	3.5578e-01	1.9092e+00
59	TAF130312	199.8241	201.4595	200.6398	3.8229e-01	1.9115e+00
60	EMPTY	3.2373	3.2520	3.2441	4.3000e-03	0.0000e+00
61	EMPTY	3.2275	3.2471	3.2391	3.9162e-03	0.0000e+00
62	EMPTY	3.2275	3.2422	3.2344	3.8206e-03	0.0000e+00
63	EMPTY	3.2275	3.2422	3.2345	4.0781e-03	0.0000e+00
64	EMPTY	1.5332	1.5430	1.5398	2.9197e-03	0.0000e+00
65	EMPTY	1.5479	1.5576	1.5539	2.7124e-03	0.0000e+00
66	EMPTY	1.5576	1.5674	1.5632	2.4184e-03	0.0000e+00
67	EMPTY	1.5723	1.5771	1.5737	2.2603e-03	0.0000e+00
68	EMPTY	1.5771	1.5869	1.5812	2.5515e-03	0.0000e+00
69	EMPTY	1.5918	1.5967	1.5929	2.0432e-03	0.0000e+00
70	EMPTY	1.6016	1.6064	1.6025	1.9730e-03	0.0000e+00
71	EMPTY	1.6162	1.6211	1.6190	2.4344e-03	0.0000e+00
72	EMPTY	1.6211	1.6309	1.6265	1.7784e-03	0.0000e+00
73	EMPTY	1.6357	1.6406	1.6396	1.9730e-03	0.0000e+00
74	EMPTY	1.6455	1.6504	1.6480	2.4642e-03	0.0000e+00
75	EMPTY	1.6553	1.6602	1.6599	1.1714e-03	0.0000e+00
76	EMPTY	1.6650	1.6699	1.6677	2.4583e-03	0.0000e+00
77	EMPTY	1.6797	1.6846	1.6805	1.8082e-03	0.0000e+00
78	EMPTY	1.6943	1.6992	1.6982	1.9730e-03	0.0000e+00
79	EMPTY	1.7139	1.7188	1.7161	2.4583e-03	0.0000e+00
80	PAN020136	-14.1378	-13.3748	-13.7517	1.5674e-01	8.7068e-01
81	PAN050136	-28.7286	-28.1182	-28.4326	1.5842e-01	1.6815e+00
82	PAN070136	-19.4179	-18.8076	-19.0746	1.6037e-01	8.7131e-01
83	PAN080136	-9.6599	-8.8970	-9.3059	2.0201e-01	8.7031e-01
84	PAN090136	-10.8130	-10.5841	-10.7215	7.8595e-02	8.7041e-01
85	PAN100136	-8.6783	-8.0679	-8.2815	1.3613e-01	8.7025e-01
86	PAN105136	-6.6000	-2.4801	-6.0293	9.9107e-01	8.7013e-01
87	PAN110136	-6.0176	-1.3637	-2.4852	1.3432e+00	8.7002e-01
88	PAN115136	-5.0991	-4.6413	-4.7649	1.1523e-01	8.7008e-01
89	PAN120136	-6.9639	-0.1738	-6.2498	1.6080e+00	8.7014e-01
90	PAN125136	-6.2831	2.7196	-4.8121	1.4787e+00	8.7008e-01
91	PAN130136	-5.6905	1.4048	-1.4714	1.3612e+00	8.7001e-01
92	PAN120048	-12.0206	-7.5192	-8.4851	1.0865e+00	8.7026e-01
93	PAN130048	-8.8763	-8.3422	-8.6504	1.0785e-01	8.7027e-01
94	PAN120224	-13.3116	-5.2245	-8.2030	2.2597e+00	8.7024e-01
95	PAN130224	-13.6726	-5.6618	-8.2252	1.5083e+00	8.7024e-01
96	PAN120312	-12.4417	-8.9322	-10.1574	1.0137e+00	8.7037e-01
97	PAN130312	-6.8457	-5.6250	-6.2735	3.2120e-01	8.7014e-01
98	PAB000136	40.2224	40.5428	40.3643	8.1809e-02	5.8871e-01
99	PAB100136	43.4619	43.5993	43.5434	4.3663e-02	5.9013e-01
100	PAB125136	44.0957	44.6908	44.5635	9.4445e-02	5.9060e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.5486	40.2386	1.6398e-01	7.5672e-01
102	PRV000001	19.7263	19.8484	19.7995	6.0409e-02	7.5163e-01
103	PSR000001	44.6710	44.7930	44.7222	6.0861e-02	7.5829e-01
104	PFM000001	3.6920	3.8751	3.7799	7.8387e-02	5.0009e-01
105	PAN000136	-120.7965	-117.1344	-119.0113	7.9152e-01	4.9290e+00
106	PFM000002	3.8190	3.9029	3.8599	1.8617e-02	2.0023e-01
107	EMPTY	-0.0049	0.0049	-0.0035	2.4244e-03	0.0000e+00
108	EMPTY	-9.4434	-9.0869	-9.2490	8.9351e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0019	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0010	1.9730e-03	0.0000e+00
112	VPW000001	100.7925	101.1832	100.9605	1.1844e-01	1.0115e+00
113	VPW000002	119.7604	120.3463	120.0923	1.4363e-01	1.0841e+00
114	VPW000003	147.6487	148.4300	147.8871	1.5926e-01	1.2014e+00
115	VPW000004	105.3335	106.1148	105.7398	1.6193e-01	1.0289e+00
116	VPW000005	140.1405	140.7264	140.4491	1.2534e-01	1.1689e+00
117	VPW000006	147.0365	147.4271	147.2163	1.2992e-01	1.1985e+00
118	IPW000001	536.0684	541.9255	539.5827	1.9323e+00	9.1532e+00
119	IPW000002	1307.1256	1322.7357	1315.9453	2.9825e+00	1.3179e+01
120	IPW000003	1330.2749	1338.0748	1334.6433	1.9524e+00	1.3296e+01
121	IPW000004	382.9346	387.8174	384.7218	1.5365e+00	3.6383e+00
122	IPW000005	254.9043	256.3690	255.7051	3.3826e-01	2.8427e+00
123	IPW000006	267.5499	269.5031	268.4092	3.8913e-01	2.9148e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	4.3180e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.5515e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0185	3.8574e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.5908e-03	0.0000e+00
128	IHT000001	131.6970	134.2360	132.7125	5.6772e-01	4.3094e+00
129	IHT000002	132.4069	134.5553	133.1568	5.0588e-01	4.3108e+00
130	IHT000003	131.6106	133.7590	132.3761	5.3210e-01	4.3084e+00
131	IHT000004	132.0838	134.4276	132.9745	5.5265e-01	4.3102e+00
132	IHT000005	129.6424	131.7908	130.5526	5.0933e-01	4.3028e+00
133	IHT000006	125.7024	127.8508	126.6867	5.0372e-01	4.2913e+00
134	IHT000007	130.3936	132.1514	131.3076	4.7423e-01	4.3051e+00
135	IHT000008	130.4199	132.5683	131.4043	4.8961e-01	4.3054e+00
136	IHT000009	131.1110	133.4548	132.2243	5.2087e-01	4.3079e+00
137	IHT000010	130.7167	132.6698	131.3925	4.5713e-01	4.3054e+00
138	IHT000011	134.9421	136.7000	135.8094	4.1603e-01	4.3191e+00
139	IHT000012	128.6433	130.5964	129.6668	4.4039e-01	4.3002e+00
140	IHT000013	92.0823	94.2308	93.1878	4.4048e-01	4.2046e+00
141	IHT000014	128.4142	130.5627	129.2579	4.7750e-01	4.2989e+00
142	IHT000015	96.3079	98.4563	97.1281	4.8488e-01	4.2135e+00
143	IHT000016	87.8718	90.0203	88.5711	4.6870e-01	4.1946e+00
144	IHT000017	105.2734	108.9844	107.2227	1.0331e+00	4.2379e+00
145	IHT000018	108.2219	110.5657	109.3117	5.4546e-01	4.2432e+00
146	IHT000019	104.1579	106.3063	105.1618	5.5103e-01	4.2327e+00
147	IHT000020	106.7909	108.9393	107.9159	5.5322e-01	4.2396e+00
148	IHT000021	-2.5653	-0.0263	-1.2724	6.4221e-01	4.1000e+00
149	IHT000022	91.2147	93.3631	92.3045	4.9456e-01	4.2026e+00
150	IHT000023	105.7993	107.9477	106.9399	4.9499e-01	4.2372e+00
151	IHT000024	71.2740	73.2271	72.2701	4.9639e-01	4.1632e+00
152	IHT000025	103.9701	106.1185	104.8530	5.1029e-01	4.2320e+00
153	IHT000026	105.2622	107.2153	106.1763	4.7094e-01	4.2352e+00
154	IHT000027	88.6832	90.4410	89.6870	4.1575e-01	4.1969e+00
155	IHT000028	90.4372	93.1716	91.5622	5.5181e-01	4.2010e+00

Test: May03_16 sum1 Date: Thu May 3 13:08:05 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	107.9928	106.6880	5.7242e-01	4.2365e+00
157	IHT000030	107.4745	109.8182	108.6151	5.9498e-01	4.2414e+00
158	IHT000031	106.3702	108.7139	107.5147	5.7590e-01	4.2386e+00
159	IHT000032	107.6285	109.9722	108.6948	5.8422e-01	4.2416e+00
160	IHT000033	107.6097	109.9534	108.6214	5.8619e-01	4.2414e+00
161	IHT000034	94.1895	96.3379	95.3496	4.7582e-01	4.2094e+00
162	IHT000035	124.2037	126.3522	125.3951	4.9324e-01	4.2875e+00
163	IHT000036	92.6119	94.7604	93.8697	4.5191e-01	4.2061e+00

Test: May03_16 sum2 Date: Thu May 3 13:08:05 1990

Page: 1

Velocity 1 = 5.0316 (ft/sec) (+/- 6.8064 %)
Velocity 2 = 5.0860 (ft/sec) (+/- 2.8626 %)
Pressure drop = -4.2874 (psi)
Tsats in = 268.1283 (deg F) Tsats out = 273.9387 (deg F)
Phi inner = 102.3927 (kBtu/hr-ft2) (+/- 1.4081 %)
Phi outer = 101.2920 (kBtu/hr-ft2) (+/- 1.6186 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0519	74.4776	74.3073	1.6654e-01	1.9000e+00
1	TRF000002	74.4908	74.9140	74.6304	1.0992e-01	1.9000e+00
2	TFM000001	87.1894	87.9234	87.5272	1.9202e-01	1.9002e+00
3	TIN000001	87.2032	87.9387	87.4617	1.5914e-01	1.9002e+00
4	TRV000001	87.2290	88.0654	87.6918	2.2270e-01	1.9002e+00
5	TSR000001	129.0635	131.9902	130.5109	8.3264e-01	1.9025e+00
6	TAO020136	169.5155	170.7980	170.2476	2.5614e-01	1.9068e+00
7	TAO050136	177.8747	178.7517	178.3371	1.7812e-01	1.9079e+00
8	TAO070136	177.5516	178.8288	178.2610	2.7092e-01	1.9079e+00
9	TAO080136	200.2803	200.9532	200.5826	1.6125e-01	1.9115e+00
10	TAO090136	207.5177	208.3804	207.8995	2.2199e-01	1.9128e+00
11	TAO100136	205.8415	206.9928	206.1697	2.1504e-01	1.9125e+00
12	TAO105136	210.3285	212.0540	211.1359	3.7208e-01	1.9134e+00
13	TAO110136	217.4852	218.7127	218.0946	2.5465e-01	1.9147e+00
14	TAO115136	214.7542	216.2863	215.6104	3.3704e-01	1.9142e+00
15	TAO120136	224.0698	225.0122	224.5427	1.9007e-01	1.9160e+00
16	TAO125136	217.9996	220.4698	218.8116	5.2099e-01	1.9149e+00
17	TAO130136	215.5828	216.2417	215.8753	1.5906e-01	1.9143e+00
18	TAO120048	234.8682	235.5282	235.2699	1.6138e-01	1.9183e+00
19	TAO130048	227.2307	227.9862	227.6480	1.6099e-01	1.9167e+00
20	TAO120224	225.6268	226.6700	226.0765	2.1994e-01	1.9163e+00
21	TAO130224	214.3406	215.0063	214.7685	1.7930e-01	1.9141e+00
22	TAO120312	213.1312	213.8970	213.5583	1.9546e-01	1.9138e+00
23	TAO130312	228.1613	228.9171	228.4994	1.7813e-01	1.9168e+00
24	TRT020000	169.1694	170.1579	169.6223	2.5184e-01	1.9067e+00
25	TRT070000	203.8160	204.5912	204.2207	1.7336e-01	1.9121e+00
26	TRT100000	226.2211	227.1672	226.7151	2.0956e-01	1.9165e+00
27	TRT120000	231.7134	232.6568	232.2963	2.0418e-01	1.9177e+00
28	TRT125000	240.1059	241.2271	240.6722	2.4868e-01	1.9195e+00
29	TRT130000	230.6170	231.1829	230.9318	1.4611e-01	1.9174e+00
30	EMPTY	39.1464	40.0646	39.6424	2.1435e-01	1.9011e+00
31	TAF050136	123.1203	124.2388	123.7363	2.7204e-01	1.9019e+00
32	TAF070136	137.2171	138.6235	137.9105	3.1532e-01	1.9031e+00
33	TAF080136	199.0772	200.7065	199.9498	3.8460e-01	1.9113e+00
34	TAF090136	148.9046	149.9033	149.4019	2.4164e-01	1.9042e+00
35	TAF100136	157.2139	159.1050	158.1996	3.9571e-01	1.9052e+00
36	TAF105136	160.6532	162.6204	161.7961	4.3056e-01	1.9057e+00
37	TAF110136	181.5124	183.4579	182.5879	4.3476e-01	1.9085e+00
38	TAF115136	170.3115	171.8835	171.1031	3.9678e-01	1.9069e+00
39	TAF120136	198.3505	200.7540	199.3140	5.2018e-01	1.9112e+00
40	TAF125136	177.8595	179.6105	178.6825	4.2423e-01	1.9079e+00
41	TAF130136	180.7358	181.6133	181.1429	2.1657e-01	1.9083e+00
42	TAF120048	186.0418	187.8058	187.1223	3.4945e-01	1.9092e+00
43	TAF130048	194.1276	196.2541	195.3863	4.0464e-01	1.9106e+00
44	TAF120224	175.7797	177.0546	176.3271	2.8926e-01	1.9076e+00
45	TAF130224	182.3383	183.2227	182.7804	2.0526e-01	1.9085e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.9844e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6424	8.4999e-02	1.9011e+00
48	TAI130138	218.7181	220.2423	219.5621	3.6652e-01	1.9150e+00
49	TAI130226	218.4354	219.5747	219.0183	2.3884e-01	1.9149e+00
50	TAI130314	227.6829	228.9170	228.4935	2.8188e-01	1.9168e+00
51	TAI130042	224.6778	225.7216	225.2299	2.7305e-01	1.9162e+00
52	TRR130090	137.2410	142.5661	140.2789	1.4674e+00	1.9033e+00
53	TSI000001	47.9146	48.6725	48.3023	2.0167e-01	1.9003e+00
54	TSI000002	122.9715	124.8017	123.7745	4.8236e-01	1.9019e+00
55	TSO000001	46.2749	47.0369	46.7430	1.9337e-01	1.9004e+00
56	TSO000002	61.2390	62.2029	61.6955	2.0735e-01	1.9000e+00
57	TAF020136	98.7104	100.4844	99.5351	3.6367e-01	1.9006e+00
58	TAF120312	186.0948	187.5540	186.8208	3.0324e-01	1.9092e+00
59	TAF130312	199.3432	201.1707	200.1461	4.4162e-01	1.9114e+00
60	EMPTY	3.2178	3.2422	3.2300	5.2432e-03	0.0000e+00
61	EMPTY	3.2178	3.2324	3.2259	3.8975e-03	0.0000e+00
62	EMPTY	3.2178	3.2275	3.2216	3.0067e-03	0.0000e+00
63	EMPTY	3.2178	3.2275	3.2227	3.1195e-03	0.0000e+00
64	EMPTY	1.5283	1.5381	1.5349	2.5362e-03	0.0000e+00
65	EMPTY	1.5479	1.5527	1.5480	9.6655e-04	0.0000e+00
66	EMPTY	1.5576	1.5625	1.5579	1.1714e-03	0.0000e+00
67	EMPTY	1.5674	1.5723	1.5691	2.3675e-03	0.0000e+00
68	EMPTY	1.5771	1.5820	1.5772	6.9053e-04	0.0000e+00
69	EMPTY	1.5869	1.5918	1.5892	2.4583e-03	0.0000e+00
70	EMPTY	1.5918	1.6016	1.5987	2.6267e-03	0.0000e+00
71	EMPTY	1.6162	1.6211	1.6164	9.6655e-04	0.0000e+00
72	EMPTY	1.6211	1.6260	1.6244	2.3008e-03	0.0000e+00
73	EMPTY	1.6357	1.6406	1.6361	1.3381e-03	0.0000e+00
74	EMPTY	1.6406	1.6504	1.6456	1.2041e-03	0.0000e+00
75	EMPTY	1.6553	1.6602	1.6562	1.8950e-03	0.0000e+00
76	EMPTY	1.6602	1.6699	1.6650	9.8648e-04	0.0000e+00
77	EMPTY	1.6748	1.6797	1.6796	6.9053e-04	0.0000e+00
78	EMPTY	1.6943	1.6992	1.6950	1.7115e-03	0.0000e+00
79	EMPTY	1.7139	1.7188	1.7143	1.3381e-03	0.0000e+00
80	PAN020136	-14.0615	-13.5274	-13.7731	1.1252e-01	8.7068e-01
81	PAN050136	-28.5760	-28.1182	-28.3227	1.3651e-01	1.6815e+00
82	PAN070136	-19.1890	-18.7313	-18.9968	1.1456e-01	8.7130e-01
83	PAN080136	-9.6599	-8.9732	-9.3349	1.3332e-01	8.7031e-01
84	PAN090136	-10.9656	-9.7449	-10.6314	1.9612e-01	8.7041e-01
85	PAN100136	-9.0597	-7.8390	-8.3090	2.2196e-01	8.7025e-01
86	PAN105136	-6.5237	-3.3957	-5.4754	1.0811e+00	8.7011e-01
87	PAN110136	-6.0176	-1.9740	-3.8738	1.3369e+00	8.7005e-01
88	PAN115136	-6.2435	-5.0991	-5.5096	2.2856e-01	8.7011e-01
89	PAN120136	-6.9639	-5.8958	-6.5962	2.7603e-01	8.7016e-01
90	PAN125136	-5.0624	3.1774	-3.3580	1.6670e+00	8.7004e-01
91	PAN130136	-6.6823	-0.1973	-2.4160	1.6643e+00	8.7002e-01
92	PAN120048	-11.9443	-7.2141	-8.4455	1.3604e+00	8.7026e-01
93	PAN130048	-9.4103	-9.0289	-9.2059	8.0742e-02	8.7030e-01
94	PAN120224	-11.9384	-5.6060	-7.6216	1.7713e+00	8.7021e-01
95	PAN130224	-8.5609	-8.1795	-8.3717	1.0136e-01	8.7025e-01
96	PAN120312	-12.3654	-8.9322	-10.2688	1.1995e+00	8.7038e-01
97	PAN130312	-6.9983	-5.8539	-6.4581	2.9076e-01	8.7015e-01
98	PAB000136	40.3597	40.6801	40.5126	6.7080e-02	5.8878e-01
99	PAB100136	43.5535	43.7366	43.6642	5.0731e-02	5.9018e-01
100	PAB125136	44.2330	44.7366	44.6249	1.0346e-01	5.9063e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3045	40.6707	40.5266	7.6770e-02	7.5681e-01
102	PRV000001	19.8484	19.8484	19.8483	1.1560e-05	7.5164e-01
103	PSR000001	44.7930	44.9151	44.8907	4.9324e-02	7.5835e-01
104	PFM000001	3.6920	3.9667	3.7891	8.3562e-02	5.0009e-01
105	PAN000136	-119.8810	-117.5922	-118.7000	5.7822e-01	4.9289e+00
106	PFM000002	3.8022	3.9365	3.8730	3.0376e-02	2.0023e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-9.4580	-9.1162	-9.2531	8.3087e-02	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0003	1.5314e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
112	VPW000001	100.7925	101.1832	100.9214	1.0885e-01	1.0113e+00
113	VPW000002	119.7604	120.1510	119.9400	1.1049e-01	1.0835e+00
114	VPW000003	147.6487	148.0394	147.8676	1.1599e-01	1.2013e+00
115	VPW000004	105.3335	105.7241	105.5210	1.2453e-01	1.0281e+00
116	VPW000005	140.1405	140.5311	140.3007	1.2901e-01	1.1682e+00
117	VPW000006	146.8412	147.2318	147.0014	1.1632e-01	1.1975e+00
118	IPW000001	530.2114	536.0684	533.3741	1.6210e+00	9.1304e+00
119	IPW000002	1318.8333	1322.7357	1320.7455	1.3932e+00	1.3209e+01
120	IPW000003	1338.0748	1343.9249	1341.1949	1.2458e+00	1.3337e+01
121	IPW000004	380.4932	382.4463	381.0597	4.5592e-01	3.6142e+00
122	IPW000005	253.9278	255.3925	254.9434	4.1662e-01	2.8384e+00
123	IPW000006	268.0382	269.5031	268.4580	3.6924e-01	2.9151e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.7239e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.8744e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0182	2.7971e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0167	2.6267e-03	0.0000e+00
128	IHT000001	131.8923	134.0407	132.8024	5.5329e-01	4.3097e+00
129	IHT000002	132.4069	134.5553	133.1880	5.3670e-01	4.3109e+00
130	IHT000003	131.6106	133.7590	132.3878	4.7759e-01	4.3084e+00
131	IHT000004	132.0838	134.0370	132.9901	4.7311e-01	4.3103e+00
132	IHT000005	129.6424	131.5955	130.5917	4.6356e-01	4.3030e+00
133	IHT000006	125.7024	127.6555	126.7296	4.3010e-01	4.2914e+00
134	IHT000007	130.3936	132.3468	131.3897	4.8848e-01	4.3054e+00
135	IHT000008	130.4199	132.7637	131.4473	4.9726e-01	4.3056e+00
136	IHT000009	131.3064	133.4548	132.2672	5.0198e-01	4.3081e+00
137	IHT000010	130.3260	133.0604	131.3925	5.7074e-01	4.3054e+00
138	IHT000011	134.3562	136.8953	135.5868	5.6943e-01	4.3184e+00
139	IHT000012	128.0574	130.5964	129.4051	5.9090e-01	4.2994e+00
140	IHT000013	91.6917	94.2308	92.9222	5.5137e-01	4.2040e+00
141	IHT000014	127.8283	130.1720	129.0275	5.2498e-01	4.2982e+00
142	IHT000015	95.7219	97.8704	96.8625	5.0895e-01	4.2129e+00
143	IHT000016	87.4812	89.4343	88.4929	4.8759e-01	4.1944e+00
144	IHT000017	106.0547	109.1797	107.4531	7.1175e-01	4.2385e+00
145	IHT000018	108.2219	110.5657	109.2570	6.1795e-01	4.2431e+00
146	IHT000019	103.9626	106.3063	105.1579	5.3034e-01	4.2327e+00
147	IHT000020	106.5956	109.1346	107.8690	5.1485e-01	4.2395e+00
148	IHT000021	-2.9560	0.3644	-1.2880	6.3529e-01	4.1000e+00
149	IHT000022	91.0194	93.7538	92.3241	5.1515e-01	4.2027e+00
150	IHT000023	105.7993	108.1430	106.9087	5.0136e-01	4.2371e+00
151	IHT000024	71.0787	73.2271	72.1998	4.5815e-01	4.1631e+00
152	IHT000025	103.7748	105.7279	104.7827	4.5568e-01	4.2318e+00
153	IHT000026	105.2622	107.2153	106.0942	4.7648e-01	4.2350e+00
154	IHT000027	88.8785	90.8316	89.6480	4.8070e-01	4.1969e+00
155	IHT000028	90.4372	92.7809	91.5310	5.8127e-01	4.2009e+00

Test: May03_16

sum2

Date: Thu May 3 13:08:05 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.9928	106.5787	5.9785e-01	4.2363e+00
157	IHT000030	107.4745	109.8182	108.5253	5.6344e-01	4.2412e+00
158	IHT000031	106.1749	108.5186	107.3662	5.5137e-01	4.2382e+00
159	IHT000032	107.6285	109.5816	108.5933	5.0132e-01	4.2414e+00
160	IHT000033	107.6097	109.5628	108.5277	5.0878e-01	4.2412e+00
161	IHT000034	94.3848	96.3379	95.0801	4.2160e-01	4.2088e+00
162	IHT000035	124.3990	126.3522	125.2388	4.4337e-01	4.2870e+00
163	IHT000036	93.0025	94.7604	93.6509	4.1468e-01	4.2056e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

4 of 11

Velocity 1 = 0.006100 (ft/sec)

Velocity 2 = 0.008500 (ft/sec)

Pressure Drop = 0.011300 (psi)

Tsat in = 0.218994 (deg F) Tsat out = 0.083282 (deg F)

Phi inner = 0.384201 (kBtu/hr-ft2) Phi outer = 0.311996 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1192	0.1607
1	TRF000002	0.1312	0.1761
2	TFM000001	0.1406	0.1609
3	TIN000001	0.1029	0.1178
4	TRV000001	0.0821	0.0937
5	TSR000001	0.5559	0.4278
6	TAO020136	0.1284	0.0754
7	TAO050136	0.0105	0.0059
8	TAO070136	0.5915	0.3329
9	TAO080136	0.0125	0.0062
10	TAO090136	0.0176	0.0085
11	TAO100136	0.0367	0.0178
12	TAO105136	0.0555	0.0263
13	TAO110136	0.0497	0.0228
14	TAO115136	0.6457	0.2986
15	TAO120136	0.6026	0.2676
16	TAO125136	2.3039	1.0419
17	TAO130136	2.1628	0.9919
18	TAO120048	0.0091	0.0039
19	TAO130048	1.2306	0.5377
20	TAO120224	0.6384	0.2816
21	TAO130224	1.8397	0.8493
22	TAO120312	2.5713	1.2187
23	TAO130312	1.5221	0.6617
24	TRT020000	0.3858	0.2269
25	TRT070000	0.1214	0.0595
26	TRT100000	0.1535	0.0678
27	TRT120000	0.2053	0.0883
28	TRT125000	1.8689	0.7706
29	TRT130000	1.2669	0.5456
30	EMPTY	0.0322	0.0813
31	TAF050136	0.1042	0.0843
32	TAF070136	0.0589	0.0427
33	TAF080136	0.1828	0.0915
34	TAF090136	0.6613	0.4446
35	TAF100136	0.2209	0.1398
36	TAF105136	0.0205	0.0127
37	TAF110136	0.1231	0.0675
38	TAF115136	0.4936	0.2893
39	TAF120136	0.2590	0.1298
40	TAF125136	0.1642	0.0918
41	TAF130136	0.1264	0.0697
42	TAF120048	0.0679	0.0363
43	TAF130048	0.1917	0.0982
44	TAF120224	0.3783	0.2141
45	TAF130224	0.0733	0.0401

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0363
47	EMPTY	0.0230	0.0580
48	TAI130138	0.3410	0.1556
49	TAI130226	0.3288	0.1503
50	TAI130314	0.1688	0.0739
51	TAI130042	0.2981	0.1325
52	TRR130090	1.7588	1.2697
53	TSI000001	0.2446	0.5090
54	TSI000002	12.3313	11.0651
55	TSO000001	0.2153	0.4627
56	TSO000002	0.0581	0.0943
57	TAF020136	0.0057	0.0057
58	TAF120312	0.0489	0.0262
59	TAF130312	0.4937	0.2461
60	EMPTY	0.0141	0.4346
61	EMPTY	0.0132	0.4075
62	EMPTY	0.0128	0.3957
63	EMPTY	0.0118	0.3648
64	EMPTY	0.0049	0.3182
65	EMPTY	0.0059	0.3797
66	EMPTY	0.0053	0.3391
67	EMPTY	0.0046	0.2923
68	EMPTY	0.0040	0.2530
69	EMPTY	0.0037	0.2323
70	EMPTY	0.0038	0.2371
71	EMPTY	0.0026	0.1606
72	EMPTY	0.0021	0.1291
73	EMPTY	0.0035	0.2135
74	EMPTY	0.0024	0.1456
75	EMPTY	0.0037	0.2229
76	EMPTY	0.0027	0.1619
77	EMPTY	0.0009	0.0536
78	EMPTY	0.0032	0.1884
79	EMPTY	0.0018	0.1049
80	PAN020136	0.0214	0.1556
81	PAN050136	0.1099	0.3865
82	PAN070136	0.0778	0.4079
83	PAN080136	0.0290	0.3116
84	PAN090136	0.0901	0.8404
85	PAN100136	0.0275	0.3321
86	PAN105136	0.5539	9.1868
87	PAN110136	1.3886	55.8748
88	PAN115136	0.7447	15.6289
89	PAN120136	0.3464	5.5426
90	PAN125136	1.4541	30.2176
91	PAN130136	0.9446	64.1974
92	PAN120048	0.0396	0.4667
93	PAN130048	0.5555	6.4217
94	PAN120224	0.5814	7.0877
95	PAN130224	0.1465	1.7811
96	PAN120312	0.1114	1.0967
97	PAN130312	0.1846	2.9425
98	PAB000136	0.1483	0.3674
99	PAB100136	0.1208	0.2774
100	PAB125136	0.0614	0.1378

Test: May03_16 dif Date: Thu May 3 13:08:05 1990 Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.2880	0.7157
102	PRV000001	0.0488	0.2465
103	PSR000001	0.1685	0.3768
104	PFM000001	0.0092	0.2434
105	PAN000136	0.3113	0.2616
106	PFM000002	0.0131	0.3394
107	EMPTY	0.0013	37.1429
108	EMPTY	0.0041	0.0443
109	EMPTY	0.0016	84.2105
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	40.0000
112	VPW000001	0.0391	0.0387
113	VPW000002	0.1523	0.1268
114	VPW000003	0.0195	0.0132
115	VPW000004	0.2188	0.2069
116	VPW000005	0.1484	0.1057
117	VPW000006	0.2149	0.1460
118	IPW000001	6.2086	1.1506
119	IPW000002	4.8002	0.3648
120	IPW000003	6.5516	0.4909
121	IPW000004	3.6621	0.9519
122	IPW000005	0.7617	0.2979
123	IPW000006	0.0488	0.0182
124	EMPTY	0.0003	1.3453
125	EMPTY	0.0009	6.5217
126	EMPTY	0.0003	1.6216
127	EMPTY	0.0004	2.3392
128	IHT000001	0.0899	0.0677
129	IHT000002	0.0312	0.0234
130	IHT000003	0.0117	0.0088
131	IHT000004	0.0156	0.0117
132	IHT000005	0.0391	0.0300
133	IHT000006	0.0429	0.0339
134	IHT000007	0.0821	0.0625
135	IHT000008	0.0430	0.0327
136	IHT000009	0.0429	0.0324
137	IHT000010	0.0000	0.0000
138	IHT000011	0.2226	0.1639
139	IHT000012	0.2617	0.2018
140	IHT000013	0.2656	0.2850
141	IHT000014	0.2304	0.1783
142	IHT000015	0.2656	0.2734
143	IHT000016	0.0782	0.0883
144	IHT000017	0.2304	0.2149
145	IHT000018	0.0547	0.0500
146	IHT000019	0.0039	0.0037
147	IHT000020	0.0469	0.0435
148	IHT000021	0.0156	1.2260
149	IHT000022	0.0196	0.0212
150	IHT000023	0.0312	0.0292
151	IHT000024	0.0703	0.0973
152	IHT000025	0.0703	0.0670
153	IHT000026	0.0821	0.0773
154	IHT000027	0.0390	0.0435
155	IHT000028	0.0312	0.0341

#	Name	Abs Diff	%Diff
156	IHT0000029	0.1093	0.1025
157	IHT0000030	0.0898	0.0827
158	IHT0000031	0.1485	0.1381
159	IHT0000032	0.1015	0.0934
160	IHT0000033	0.0937	0.0863
161	IHT0000034	0.2695	0.2826
162	IHT0000035	0.1563	0.1246
163	IHT0000036	0.2188	0.2331

Test: May03_17 sum1 Date: Thu May 3 13:28:18 1990 Page: 1

Velocity 1 = 3.9696 (ft/sec) (+/- 10.8353 %)
Velocity 2 = 4.0712 (ft/sec) (+/- 4.0235 %)
Pressure drop = -4.6740 (psi)
Tsat in = 267.6924 (deg F) Tsat out = 274.0393 (deg F)
Phi inner = 100.4433 (kBtu/hr-ft2) (+/- 1.4136 %)
Phi outer = 101.0083 (kBtu/hr-ft2) (+/- 1.6177 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4776	74.9031	74.7329	1.5499e-01	1.9000e+00
1	TRF000002	74.7024	75.3371	75.0579	1.3132e-01	1.9000e+00
2	TFM000001	87.4001	88.1339	87.7860	1.6467e-01	1.9002e+00
3	TIN000001	87.4131	88.0431	87.7493	1.5738e-01	1.9002e+00
4	TRV000001	87.8578	88.4863	88.0887	1.4935e-01	1.9002e+00
5	TSR000001	133.6028	137.4233	135.3249	1.0028e+00	1.9029e+00
6	TAO020136	185.1219	186.2928	185.7113	2.4930e-01	1.9090e+00
7	TAO050136	194.2413	195.4933	194.8228	2.4529e-01	1.9105e+00
8	TAO070136	192.8084	195.2388	193.7345	4.7832e-01	1.9103e+00
9	TAO080136	221.5922	222.4435	221.9332	1.7403e-01	1.9155e+00
10	TAO090136	230.0481	231.3693	230.6521	2.3974e-01	1.9173e+00
11	TAO100136	228.9766	231.5258	230.1102	4.4735e-01	1.9172e+00
12	TAO105136	236.3873	237.3302	236.8967	2.3943e-01	1.9187e+00
13	TAO110136	244.2461	245.8238	245.0104	3.0342e-01	1.9205e+00
14	TAO115136	243.9002	245.6867	244.6791	4.4099e-01	1.9204e+00
15	TAO120136	252.8821	253.9944	253.4938	2.2292e-01	1.9225e+00
16	TAO125136	247.0220	249.7283	248.5905	5.9279e-01	1.9214e+00
17	TAO130136	241.8614	242.6945	242.3283	2.0796e-01	1.9199e+00
18	TAO120048	265.0073	265.8402	265.4257	2.1003e-01	1.9256e+00
19	TAO130048	256.1202	257.1410	256.4585	2.0514e-01	1.9233e+00
20	TAO120224	255.0195	256.0436	255.3959	2.4151e-01	1.9230e+00
21	TAO130224	240.9099	241.8428	241.3615	2.3999e-01	1.9197e+00
22	TAO120312	263.7791	264.8918	264.3727	2.2625e-01	1.9253e+00
23	TAO130312	256.8839	258.2758	257.4188	2.5532e-01	1.9235e+00
24	TRT020000	184.9013	185.8788	185.4176	2.8065e-01	1.9090e+00
25	TRT070000	226.0244	227.1677	226.5612	2.4485e-01	1.9164e+00
26	TRT100000	254.9784	255.6295	255.2912	1.7494e-01	1.9230e+00
27	TRT120000	263.1936	264.5820	263.6604	2.9912e-01	1.9251e+00
28	TRT125000	273.2682	274.2766	273.7124	2.2476e-01	1.9278e+00
29	TRT130000	259.6543	260.3035	259.9772	1.6775e-01	1.9242e+00
30	EMPTY	39.1464	40.0646	39.6470	2.0049e-01	1.9011e+00
31	TAF050136	132.6438	134.3591	133.4510	4.6520e-01	1.9027e+00
32	TAF070136	149.9075	153.0867	151.0252	6.7965e-01	1.9044e+00
33	TAF080136	220.5594	222.7312	221.6252	4.1346e-01	1.9154e+00
34	TAF090136	161.3310	163.8031	162.4548	3.7202e-01	1.9057e+00
35	TAF100136	175.9109	178.4634	177.1286	5.4248e-01	1.9077e+00
36	TAF105136	180.2847	183.1890	181.1880	6.4874e-01	1.9083e+00
37	TAF110136	204.4011	209.0891	206.7822	1.2966e+00	1.9126e+00
38	TAF115136	191.5816	194.7746	193.0529	7.8032e-01	1.9102e+00
39	TAF120136	225.6127	229.1994	227.5123	7.7868e-01	1.9166e+00
40	TAF125136	201.0140	206.1735	203.1033	1.2001e+00	1.9119e+00
41	TAF130136	204.5317	206.7375	205.5638	5.8199e-01	1.9123e+00
42	TAF120048	211.6141	215.9461	213.0056	9.0782e-01	1.9137e+00
43	TAF130048	221.0578	223.8105	222.3073	5.5490e-01	1.9156e+00
44	TAF120224	198.9391	201.6389	200.3125	5.7579e-01	1.9114e+00
45	TAF130224	206.8766	208.0350	207.4020	2.8057e-01	1.9127e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.6908e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7388	1.1443e-01	1.9011e+00
48	TAI130138	247.7059	249.4832	248.5555	3.3796e-01	1.9214e+00
49	TAI130226	247.6742	248.7003	248.2452	2.6405e-01	1.9213e+00
50	TAI130314	259.2737	260.5771	259.9252	3.1572e-01	1.9241e+00
51	TAI130042	255.6133	257.1957	256.5220	3.6305e-01	1.9233e+00
52	TRR130090	137.0403	138.9531	137.9066	4.2160e-01	1.9031e+00
53	TSI000001	48.3484	49.2141	48.7166	1.8808e-01	1.9003e+00
54	TSI000002	121.2406	123.8877	122.9071	5.5097e-01	1.9019e+00
55	TSO000001	46.3822	47.2532	46.9440	2.2031e-01	1.9004e+00
56	TSO000002	63.9127	64.7678	64.3575	2.2575e-01	1.9000e+00
57	TAF020136	102.1520	104.0269	103.1485	3.8733e-01	1.9007e+00
58	TAF120312	211.5509	213.9395	212.4913	6.0672e-01	1.9136e+00
59	TAF130312	226.0448	231.7060	227.5592	1.1535e+00	1.9167e+00
60	EMPTY	3.8916	3.9746	3.9117	1.5586e-02	0.0000e+00
61	EMPTY	3.8818	3.9355	3.9008	8.4077e-03	0.0000e+00
62	EMPTY	3.8770	3.9111	3.8907	5.6402e-03	0.0000e+00
63	EMPTY	3.8770	3.9014	3.8875	4.1102e-03	0.0000e+00
64	EMPTY	1.8262	1.8311	1.8282	2.4344e-03	0.0000e+00
65	EMPTY	1.8359	1.8457	1.8404	1.9331e-03	0.0000e+00
66	EMPTY	1.8457	1.8506	1.8487	2.3941e-03	0.0000e+00
67	EMPTY	1.8555	1.8652	1.8587	2.8946e-03	0.0000e+00
68	EMPTY	1.8604	1.8750	1.8648	3.0945e-03	0.0000e+00
69	EMPTY	1.8701	1.8848	1.8752	3.4116e-03	0.0000e+00
70	EMPTY	1.8799	1.8945	1.8836	4.0144e-03	0.0000e+00
71	EMPTY	1.8945	1.9092	1.9004	3.8206e-03	0.0000e+00
72	EMPTY	1.9043	1.9141	1.9067	3.8523e-03	0.0000e+00
73	EMPTY	1.9141	1.9287	1.9174	4.3495e-03	0.0000e+00
74	EMPTY	1.9189	1.9336	1.9261	4.2096e-03	0.0000e+00
75	EMPTY	1.9287	1.9434	1.9362	4.3237e-03	0.0000e+00
76	EMPTY	1.9385	1.9482	1.9428	4.3718e-03	0.0000e+00
77	EMPTY	1.9482	1.9629	1.9555	2.9986e-03	0.0000e+00
78	EMPTY	1.9678	1.9775	1.9706	3.1335e-03	0.0000e+00
79	EMPTY	1.9824	1.9922	1.9880	3.9471e-03	0.0000e+00
80	PAN020136	-15.5111	-14.9007	-15.1754	1.3613e-01	8.7083e-01
81	PAN050136	-31.3226	-30.8648	-31.0998	1.3511e-01	1.6818e+00
82	PAN070136	-23.2326	-18.6550	-20.7607	1.3212e+00	8.7155e-01
83	PAN080136	-13.9324	-8.5918	-11.3582	1.6113e+00	8.7046e-01
84	PAN090136	-12.1100	-6.2354	-11.6507	1.2208e+00	8.7049e-01
85	PAN100136	-12.2641	-2.6510	-8.3304	1.5769e+00	8.7025e-01
86	PAN105136	-6.6000	-3.0905	-5.4037	1.1441e+00	8.7010e-01
87	PAN110136	-6.0939	4.8161	-2.8728	1.7912e+00	8.7003e-01
88	PAN115136	-7.2353	-3.4206	-5.1250	8.2885e-01	8.7009e-01
89	PAN120136	-6.8113	3.1069	-4.6156	1.2735e+00	8.7008e-01
90	PAN125136	-6.3594	-0.7899	-4.3345	1.0954e+00	8.7007e-01
91	PAN130136	-6.7586	-2.9439	-4.9993	8.4557e-01	8.7009e-01
92	PAN120048	-11.9443	-7.7481	-9.7348	8.0136e-01	8.7034e-01
93	PAN130048	-12.8436	-8.8763	-9.9673	7.1607e-01	8.7036e-01
94	PAN120224	-10.4125	-6.3689	-8.1176	7.3919e-01	8.7024e-01
95	PAN130224	-10.1631	-7.6454	-9.3162	5.0848e-01	8.7031e-01
96	PAN120312	-12.3654	-7.3300	-8.8772	9.2006e-01	8.7028e-01
97	PAN130312	-10.5841	-4.5569	-9.4443	1.0847e+00	8.7032e-01
98	PAB000136	40.1308	40.3597	40.2178	6.2211e-02	5.8865e-01
99	PAB100136	43.5077	43.9197	43.7897	7.9211e-02	5.9024e-01
100	PAB125136	44.5993	44.8281	44.6990	5.3680e-02	5.9067e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.6941	40.1824	39.8650	1.0168e-01	7.5659e-01
102	PRV000001	19.7263	19.9704	19.8581	4.1561e-02	7.5164e-01
103	PSR000001	44.9151	45.0372	44.9468	5.4088e-02	7.5837e-01
104	PFM000001	2.2272	2.4103	2.3352	6.8437e-02	5.0003e-01
105	PAN000136	-132.2406	-128.1208	-129.4025	8.9665e-01	4.9306e+00
106	PFM000002	2.4263	2.4934	2.4592	1.7926e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0039	2.2058e-03	0.0000e+00
108	EMPTY	-9.6289	-9.1455	-9.3600	1.2113e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0022	2.4583e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0005	1.4797e-03	0.0000e+00
112	VPW000001	100.5972	101.1832	100.8238	1.0705e-01	1.0110e+00
113	VPW000002	119.9557	120.3463	120.1626	9.9902e-02	1.0844e+00
114	VPW000003	147.6487	148.2347	147.9886	1.4123e-01	1.2019e+00
115	VPW000004	105.5288	105.9195	105.7124	1.0741e-01	1.0288e+00
116	VPW000005	140.3358	140.7264	140.4921	1.0440e-01	1.1690e+00
117	VPW000006	146.8412	147.2318	147.0991	1.0014e-01	1.1979e+00
118	IPW000001	557.5443	561.4489	559.4183	1.1128e+00	9.2272e+00
119	IPW000002	1281.7590	1287.6129	1284.6077	1.6823e+00	1.2985e+01
120	IPW000003	1308.8248	1314.6749	1311.1646	1.3066e+00	1.3149e+01
121	IPW000004	386.3526	387.3291	386.7140	3.0897e-01	3.6515e+00
122	IPW000005	253.9278	254.9043	254.5723	2.5032e-01	2.8363e+00
123	IPW000006	266.0851	267.0616	266.6123	3.5348e-01	2.9045e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	4.3180e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0146	3.1950e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.5568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0176	3.2718e-03	0.0000e+00
128	IHT000001	131.8923	133.8454	132.7789	5.0565e-01	4.3096e+00
129	IHT000002	132.2115	134.1647	133.2779	4.9159e-01	4.3112e+00
130	IHT000003	131.8059	133.3684	132.5636	4.4405e-01	4.3090e+00
131	IHT000004	132.4745	134.2323	133.1542	4.2907e-01	4.3108e+00
132	IHT000005	129.8377	131.7908	130.6815	4.4018e-01	4.3032e+00
133	IHT000006	126.0930	127.6555	126.8468	4.1575e-01	4.2917e+00
134	IHT000007	130.7843	132.5421	131.4678	4.0864e-01	4.3056e+00
135	IHT000008	130.8105	132.5683	131.5996	4.0618e-01	4.3060e+00
136	IHT000009	131.3064	133.0642	132.3571	4.2295e-01	4.3083e+00
137	IHT000010	130.3260	132.4745	131.3339	5.1503e-01	4.3052e+00
138	IHT000011	134.5515	136.5046	135.4579	4.5294e-01	4.3180e+00
139	IHT000012	128.2527	130.2058	129.2606	4.6749e-01	4.2989e+00
140	IHT000013	91.8870	93.8401	92.9300	4.8264e-01	4.2040e+00
141	IHT000014	128.0236	129.9767	129.0275	4.6690e-01	4.2982e+00
142	IHT000015	95.9172	97.8704	96.8742	4.2727e-01	4.2129e+00
143	IHT000016	87.4812	89.4343	88.2781	4.3734e-01	4.1940e+00
144	IHT000017	105.2734	107.8125	106.4688	6.1465e-01	4.2360e+00
145	IHT000018	108.0266	110.3703	109.0187	4.8942e-01	4.2425e+00
146	IHT000019	103.7673	106.3063	104.9079	5.2550e-01	4.2321e+00
147	IHT000020	106.5956	109.1346	107.6073	5.3915e-01	4.2389e+00
148	IHT000021	-2.9560	0.3644	-1.5341	6.8804e-01	4.1000e+00
149	IHT000022	90.8241	93.5584	91.8397	5.7589e-01	4.2016e+00
150	IHT000023	105.6040	107.9477	106.6977	5.5383e-01	4.2366e+00
151	IHT000024	70.8834	73.0318	71.9732	4.8982e-01	4.1627e+00
152	IHT000025	103.5795	105.5326	104.6499	5.0723e-01	4.2314e+00
153	IHT000026	104.6762	107.0200	105.9770	5.0472e-01	4.2348e+00
154	IHT000027	88.2925	90.4410	89.3550	4.8674e-01	4.1962e+00
155	IHT000028	90.2419	92.1950	91.1130	5.0256e-01	4.2000e+00

Test: May03_17

sum1

Date: Thu May 3 13:28:18 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.7975	106.4107	5.6117e-01	4.2358e+00
157	IHT000030	107.2792	109.4276	108.2831	5.5244e-01	4.2406e+00
158	IHT000031	106.1749	108.1280	107.1905	5.1900e-01	4.2378e+00
159	IHT000032	107.2378	109.5816	108.4136	5.4030e-01	4.2409e+00
160	IHT000033	107.2190	109.5628	108.3597	5.2253e-01	4.2408e+00
161	IHT000034	93.9941	96.1426	95.0723	4.5547e-01	4.2088e+00
162	IHT000035	124.2037	126.3522	125.2349	4.5170e-01	4.2870e+00
163	IHT000036	92.8072	94.3697	93.6158	3.9658e-01	4.2055e+00

Velocity 1 = 3.9652 (ft/sec) (+/- 10.8603 %)
Velocity 2 = 4.0293 (ft/sec) (+/- 4.0951 %)
Pressure drop = -4.6912 (psi)
Tsats in = 267.8051 (deg F) Tsats out = 274.1621 (deg F)
Phi inner = 102.3571 (kBtu/hr-ft2) (+/- 1.4083 %)
Phi outer = 101.1956 (kBtu/hr-ft2) (+/- 1.6188 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4776	75.1158	74.8010	1.9337e-01	1.9000e+00
1	TRF000002	74.9140	75.3371	75.1298	1.0888e-01	1.9000e+00
2	TFM000001	87.7141	88.4484	88.0436	1.9635e-01	1.9002e+00
3	TIN000001	87.6231	88.2537	87.9194	1.3708e-01	1.9002e+00
4	TRV000001	87.8590	88.6955	88.2957	2.0667e-01	1.9002e+00
5	TSR000001	137.5228	139.1292	138.4241	3.5036e-01	1.9032e+00
6	TAO020136	185.5119	186.5856	186.1620	2.3295e-01	1.9091e+00
7	TAO050136	195.3962	196.6472	196.0488	3.0589e-01	1.9107e+00
8	TAO070136	193.6838	195.9185	194.8793	4.9664e-01	1.9105e+00
9	TAO080136	222.2538	223.2945	222.9438	1.9136e-01	1.9157e+00
10	TAO090136	231.3687	232.7831	231.8762	2.5774e-01	1.9176e+00
11	TAO100136	230.2989	232.5641	231.5694	5.0187e-01	1.9175e+00
12	TAO105136	237.4242	239.4026	238.2933	3.9981e-01	1.9190e+00
13	TAO110136	245.8217	246.8443	246.3477	2.6202e-01	1.9208e+00
14	TAO115136	244.1829	246.7201	245.8012	5.2656e-01	1.9207e+00
15	TAO120136	254.2684	255.5629	255.0770	2.5799e-01	1.9229e+00
16	TAO125136	248.6093	251.3134	250.3045	6.7155e-01	1.9218e+00
17	TAO130136	243.0634	244.5430	243.8747	3.7371e-01	1.9203e+00
18	TAO120048	266.7638	267.6881	267.1649	2.1591e-01	1.9260e+00
19	TAO130048	257.6951	258.5303	258.0646	1.9145e-01	1.9237e+00
20	TAO120224	255.7642	256.8809	256.4843	2.3542e-01	1.9233e+00
21	TAO130224	241.8423	244.2598	243.2500	6.5080e-01	1.9201e+00
22	TAO120312	248.1330	248.7888	248.4273	1.7742e-01	1.9213e+00
23	TAO130312	258.8310	259.6646	259.2371	1.8246e-01	1.9240e+00
24	TRT020000	185.3901	186.5627	186.0097	2.5558e-01	1.9090e+00
25	TRT070000	227.2639	228.2163	227.7226	2.3705e-01	1.9167e+00
26	TRT100000	256.2785	257.1139	256.7816	2.0728e-01	1.9234e+00
27	TRT120000	264.5820	265.9682	265.1641	2.4653e-01	1.9255e+00
28	TRT125000	274.8231	276.0138	275.2431	2.2212e-01	1.9282e+00
29	TRT130000	261.2271	262.0610	261.6071	1.7382e-01	1.9246e+00
30	EMPTY	39.1464	40.0646	39.6194	1.9351e-01	1.9011e+00
31	TAF050136	133.1490	134.6622	133.8890	3.6663e-01	1.9027e+00
32	TAF070136	150.4043	153.9796	151.8618	6.8031e-01	1.9045e+00
33	TAF080136	221.1272	223.3918	222.4837	5.1162e-01	1.9156e+00
34	TAF090136	162.7157	164.7905	163.7139	3.7781e-01	1.9059e+00
35	TAF100136	176.5004	180.2279	178.4729	8.1083e-01	1.9079e+00
36	TAF105136	181.0626	185.6092	182.8524	9.7958e-01	1.9086e+00
37	TAF110136	205.3585	209.8531	207.6111	9.0506e-01	1.9127e+00
38	TAF115136	193.3238	197.6702	195.1236	1.1906e+00	1.9105e+00
39	TAF120136	227.5952	230.7064	229.0234	8.0168e-01	1.9170e+00
40	TAF125136	202.2586	207.7965	204.7943	1.3435e+00	1.9122e+00
41	TAF130136	205.6827	209.2263	207.5664	8.4406e-01	1.9127e+00
42	TAF120048	213.1559	215.6573	214.1242	5.5002e-01	1.9139e+00
43	TAF130048	222.4815	226.2732	224.2557	6.2827e-01	1.9160e+00
44	TAF120224	200.1931	206.0647	202.0875	1.2935e+00	1.9117e+00
45	TAF130224	208.4209	211.9861	209.8805	9.4144e-01	1.9131e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.2277e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7250	1.1583e-01	1.9011e+00
48	TAI130138	249.2957	250.8850	250.2886	3.8272e-01	1.9218e+00
49	TAI130226	248.6989	250.3747	249.7479	3.0735e-01	1.9216e+00
50	TAI130314	260.7627	261.9720	261.4641	2.9902e-01	1.9245e+00
51	TAI130042	257.1030	259.1491	257.9643	3.3970e-01	1.9237e+00
52	TRR130090	140.1583	143.7688	141.8267	8.8762e-01	1.9035e+00
53	TSI000001	48.3491	48.9987	48.6239	1.7930e-01	1.9003e+00
54	TSI000002	123.4815	125.1085	124.3088	4.3854e-01	1.9020e+00
55	TSO000001	46.4905	47.3620	46.8239	1.8457e-01	1.9004e+00
56	TSO000002	64.1263	64.9812	64.4623	2.0015e-01	1.9000e+00
57	TAF020136	102.9851	104.3393	103.5626	3.4266e-01	1.9008e+00
58	TAF120312	212.4106	214.8931	213.6967	5.7261e-01	1.9139e+00
59	TAF130312	228.1222	231.8944	229.8263	9.4996e-01	1.9171e+00
60	EMPTY	3.9502	4.0088	3.9693	1.3945e-02	0.0000e+00
61	EMPTY	3.9453	3.9893	3.9580	8.8233e-03	0.0000e+00
62	EMPTY	3.9404	3.9697	3.9479	5.5110e-03	0.0000e+00
63	EMPTY	3.9355	3.9551	3.9438	3.8523e-03	0.0000e+00
64	EMPTY	1.8506	1.8604	1.8538	2.7213e-03	0.0000e+00
65	EMPTY	1.8604	1.8701	1.8663	2.2689e-03	0.0000e+00
66	EMPTY	1.8701	1.8799	1.8739	2.2689e-03	0.0000e+00
67	EMPTY	1.8799	1.8896	1.8839	2.1364e-03	0.0000e+00
68	EMPTY	1.8896	1.8945	1.8897	6.9053e-04	0.0000e+00
69	EMPTY	1.8994	1.9043	1.8999	1.4797e-03	0.0000e+00
70	EMPTY	1.9043	1.9092	1.9074	2.3675e-03	0.0000e+00
71	EMPTY	1.9189	1.9287	1.9231	2.2080e-03	0.0000e+00
72	EMPTY	1.9287	1.9336	1.9292	1.4797e-03	0.0000e+00
73	EMPTY	1.9385	1.9434	1.9395	1.9730e-03	0.0000e+00
74	EMPTY	1.9434	1.9482	1.9479	1.1714e-03	0.0000e+00
75	EMPTY	1.9531	1.9629	1.9568	2.3261e-03	0.0000e+00
76	EMPTY	1.9629	1.9678	1.9630	6.9053e-04	0.0000e+00
77	EMPTY	1.9727	1.9775	1.9749	2.4583e-03	0.0000e+00
78	EMPTY	1.9873	1.9922	1.9896	2.4642e-03	0.0000e+00
79	EMPTY	2.0068	2.0068	2.0068	0.0000e+00	0.0000e+00
80	PAN020136	-15.5874	-14.9770	-15.2425	1.1456e-01	8.7083e-01
81	PAN050136	-31.3226	-30.8648	-31.1456	1.2082e-01	1.6818e+00
82	PAN070136	-23.7667	-18.9602	-20.8919	1.4110e+00	8.7157e-01
83	PAN080136	-13.9324	-7.7525	-11.8068	1.8567e+00	8.7050e-01
84	PAN090136	-12.1100	-6.3880	-11.2281	1.6442e+00	8.7045e-01
85	PAN100136	-13.3322	-0.5911	-8.4235	2.6169e+00	8.7025e-01
86	PAN105136	-6.6000	2.4790	-4.6637	1.7461e+00	8.7008e-01
87	PAN110136	-6.0939	-1.5926	-3.9638	1.1178e+00	8.7006e-01
88	PAN115136	-5.6331	-1.5133	-4.1988	8.7953e-01	8.7006e-01
89	PAN120136	-6.9639	0.6655	-5.3450	1.2108e+00	8.7010e-01
90	PAN125136	-6.3594	-1.5529	-4.0858	1.2328e+00	8.7006e-01
91	PAN130136	-6.6823	0.0316	-5.1534	1.2677e+00	8.7010e-01
92	PAN120048	-10.8762	-8.1296	-9.7104	6.2441e-01	8.7034e-01
93	PAN130048	-10.4022	-8.4948	-9.6224	3.6354e-01	8.7033e-01
94	PAN120224	-13.4642	-6.0637	-8.9843	1.6210e+00	8.7029e-01
95	PAN130224	-12.8334	-1.6945	-9.1575	1.8581e+00	8.7030e-01
96	PAN120312	-12.4417	-8.0929	-9.3136	8.4114e-01	8.7031e-01
97	PAN130312	-10.3552	-5.3198	-9.2673	8.5262e-01	8.7031e-01
98	PAB000136	40.1308	40.4512	40.2938	7.3499e-02	5.8868e-01
99	PAB100136	43.5535	44.0112	43.8803	9.8314e-02	5.9028e-01
100	PAB125136	44.6450	44.9197	44.7897	6.1596e-02	5.9071e-01

Test: May03_17

sum2

Date: Thu May 3 13:28:18 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8162	40.4266	40.1067	1.2549e-01	7.5667e-01
102	PRV0000001	19.7263	19.8484	19.8435	2.4164e-02	7.5164e-01
103	PSR0000001	45.0372	45.1592	45.0860	6.0409e-02	7.5842e-01
104	PFM0000001	2.1356	2.5019	2.3297	8.1971e-02	5.0003e-01
105	PAN000136	-131.7829	-120.3388	-129.8786	1.6449e+00	4.9307e+00
106	PFM0000002	2.3759	2.4431	2.4075	1.6828e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0024	3.1583e-03	0.0000e+00
108	EMPTY	-9.6436	-9.1797	-9.3589	1.0505e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0032	2.3365e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	100.4019	101.3785	100.8863	2.4080e-01	1.0112e+00
113	VPW0000002	119.9557	120.3463	120.1040	1.3984e-01	1.0842e+00
114	VPW0000003	147.8440	148.4300	148.0902	1.5185e-01	1.2023e+00
115	VPW0000004	105.1382	106.1148	105.6187	2.3414e-01	1.0284e+00
116	VPW0000005	139.9451	140.9217	140.4921	2.1249e-01	1.1690e+00
117	VPW0000006	146.8412	147.6225	147.1538	1.8924e-01	1.1982e+00
118	IPW0000001	528.2591	539.9731	534.2332	2.9361e+00	9.1336e+00
119	IPW0000002	1309.0769	1322.7357	1315.5552	3.0136e+00	1.3177e+01
120	IPW0000003	1334.1749	1345.8749	1339.4008	2.6847e+00	1.3326e+01
121	IPW0000004	378.5401	383.9112	381.1671	1.2782e+00	3.6149e+00
122	IPW0000005	253.4396	255.3925	254.7090	4.7305e-01	2.8371e+00
123	IPW0000006	266.5734	269.0148	267.3936	4.7760e-01	2.9090e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.4229e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.8946e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0164	3.2359e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.4583e-03	0.0000e+00
128	IHT0000001	131.5016	134.0407	132.8063	5.1364e-01	4.3097e+00
129	IHT0000002	132.0162	134.5553	133.3169	5.1389e-01	4.3113e+00
130	IHT0000003	131.6106	133.7590	132.6378	4.9726e-01	4.3092e+00
131	IHT0000004	132.2792	134.4276	133.2714	5.1726e-01	4.3112e+00
132	IHT0000005	129.8377	131.7908	130.8143	4.8648e-01	4.3036e+00
133	IHT0000006	125.8977	128.0461	126.9367	5.0754e-01	4.2920e+00
134	IHT0000007	130.5889	132.5421	131.6084	5.1037e-01	4.3061e+00
135	IHT0000008	130.6152	132.7637	131.7012	4.9624e-01	4.3063e+00
136	IHT0000009	131.3064	133.4548	132.4664	4.8554e-01	4.3087e+00
137	IHT0000010	130.1307	132.4745	131.3964	5.0415e-01	4.3054e+00
138	IHT0000011	134.3562	136.5046	135.5360	4.9750e-01	4.3182e+00
139	IHT0000012	128.2527	130.4011	129.3622	4.7913e-01	4.2992e+00
140	IHT0000013	91.6917	94.0354	92.9104	5.1684e-01	4.2040e+00
141	IHT0000014	127.8283	130.1720	129.1447	5.1571e-01	4.2986e+00
142	IHT0000015	95.5266	97.8704	96.8664	4.8650e-01	4.2129e+00
143	IHT0000016	87.2859	89.2390	88.3171	4.7522e-01	4.1940e+00
144	IHT0000017	105.6641	108.5938	107.0508	7.3636e-01	4.2375e+00
145	IHT0000018	107.8313	110.1750	109.0695	4.9064e-01	4.2426e+00
146	IHT0000019	103.9626	105.7204	104.8649	4.3205e-01	4.2320e+00
147	IHT0000020	106.7909	108.3534	107.6229	4.4083e-01	4.2389e+00
148	IHT0000021	-2.3700	-0.2216	-1.3817	5.5300e-01	4.1000e+00
149	IHT0000022	91.0194	92.7772	91.9022	4.4859e-01	4.2017e+00
150	IHT0000023	105.7993	107.5571	106.7524	4.7620e-01	4.2367e+00
151	IHT0000024	71.0787	72.8365	71.9693	4.5534e-01	4.1627e+00
152	IHT0000025	103.9701	105.7279	104.6264	4.6815e-01	4.2314e+00
153	IHT0000026	105.2622	107.2153	106.0044	4.8808e-01	4.2348e+00
154	IHT0000027	88.4878	90.8316	89.3745	5.2380e-01	4.1963e+00
155	IHT0000028	90.0466	92.5856	91.2185	5.9843e-01	4.2002e+00

Test: May03_17 sum2 Date: Thu May 3 13:28:18 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.7975	106.5240	5.8426e-01	4.2361e+00
157	IHT000030	107.4745	109.6229	108.3807	5.9551e-01	4.2408e+00
158	IHT000031	106.3702	108.5186	107.2842	5.8186e-01	4.2380e+00
159	IHT000032	107.6285	109.9722	108.5464	6.1921e-01	4.2413e+00
160	IHT000033	107.6097	109.9534	108.5042	5.9984e-01	4.2411e+00
161	IHT000034	94.1895	96.1426	95.1426	5.1090e-01	4.2089e+00
162	IHT000035	124.3990	126.5475	125.3638	5.4449e-01	4.2874e+00
163	IHT000036	92.6119	94.7604	93.6548	5.2141e-01	4.2056e+00

Test: May03_17 dif Date: Thu May 3 13:28:18 1990 Page: 1

Velocity 1 = 0.004400 (ft/sec)

Velocity 2 = 0.041900 (ft/sec)

Pressure Drop = 0.017200 (psi)

Tsat in = 0.112701 (deg F) Tsat out = 0.122803 (deg F)

Phi inner = 1.913803 (kBtu/hr-ft2) Phi outer = 0.187302 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0681	0.0911
1	TRF000002	0.0719	0.0958
2	TFM000001	0.2576	0.2934
3	TIN000001	0.1701	0.1939
4	TRV000001	0.2070	0.2350
5	TSR000001	3.0992	2.2902
6	TAO020136	0.4507	0.2427
7	TAO050136	1.2260	0.6293
8	TAO070136	1.1448	0.5909
9	TAO080136	1.0106	0.4554
10	TAO090136	1.2241	0.5307
11	TAO100136	1.4592	0.6341
12	TAO105136	1.3966	0.5895
13	TAO110136	1.3373	0.5458
14	TAO115136	1.1221	0.4586
15	TAO120136	1.5832	0.6245
16	TAO125136	1.7140	0.6895
17	TAO130136	1.5464	0.6381
18	TAO120048	1.7392	0.6552
19	TAO130048	1.6061	0.6263
20	TAO120224	1.0884	0.4262
21	TAO130224	1.8885	0.7824
22	TAO120312	15.9454	6.0314
23	TAO130312	1.8183	0.7064
24	TRT020000	0.5921	0.3193
25	TRT070000	1.1614	0.5126
26	TRT100000	1.4904	0.5838
27	TRT120000	1.5037	0.5703
28	TRT125000	1.5307	0.5592
29	TRT130000	1.6299	0.6269
30	EMPTY	0.0276	0.0696
31	TAF050136	0.4380	0.3282
32	TAF070136	0.8366	0.5539
33	TAF080136	0.8585	0.3874
34	TAF090136	1.2591	0.7750
35	TAF100136	1.3443	0.7589
36	TAF105136	1.6644	0.9186
37	TAF110136	0.8289	0.4009
38	TAF115136	2.0707	1.0726
39	TAF120136	1.5111	0.6642
40	TAF125136	1.6910	0.8326
41	TAF130136	2.0026	0.9742
42	TAF120048	1.1186	0.5252
43	TAF130048	1.9484	0.8764
44	TAF120224	1.7750	0.8861
45	TAF130224	2.4785	1.1950

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0603
47	EMPTY	0.0138	0.0347
48	TAI130138	1.7331	0.6973
49	TAI130226	1.5027	0.6053
50	TAI130314	1.5389	0.5921
51	TAI130042	1.4423	0.5622
52	TRR130090	3.9201	2.8426
53	TSI000001	0.0927	0.1903
54	TSI000002	1.4017	1.1405
55	TSO000001	0.1201	0.2558
56	TSO000002	0.1048	0.1628
57	TAF020136	0.4141	0.4015
58	TAF120312	1.2054	0.5673
59	TAF130312	2.2671	0.9963
60	EMPTY	0.0576	1.4725
61	EMPTY	0.0572	1.4664
62	EMPTY	0.0572	1.4702
63	EMPTY	0.0563	1.4482
64	EMPTY	0.0256	1.4003
65	EMPTY	0.0259	1.4073
66	EMPTY	0.0252	1.3631
67	EMPTY	0.0252	1.3558
68	EMPTY	0.0249	1.3353
69	EMPTY	0.0247	1.3172
70	EMPTY	0.0238	1.2635
71	EMPTY	0.0227	1.1945
72	EMPTY	0.0225	1.1801
73	EMPTY	0.0221	1.1526
74	EMPTY	0.0218	1.1318
75	EMPTY	0.0206	1.0639
76	EMPTY	0.0202	1.0397
77	EMPTY	0.0194	0.9921
78	EMPTY	0.0190	0.9642
79	EMPTY	0.0188	0.9457
80	PAN020136	0.0671	0.4422
81	PAN050136	0.0458	0.1473
82	PAN070136	0.1312	0.6320
83	PAN080136	0.4486	3.9496
84	PAN090136	0.4226	3.6272
85	PAN100136	0.0931	1.1176
86	PAN105136	0.7400	13.6943
87	PAN110136	1.0910	37.9769
88	PAN115136	0.9262	18.0722
89	PAN120136	0.7294	15.8029
90	PAN125136	0.2487	5.7377
91	PAN130136	0.1541	3.0824
92	PAN120048	0.0244	0.2507
93	PAN130048	0.3449	3.4603
94	PAN120224	0.8667	10.6768
95	PAN130224	0.1587	1.7035
96	PAN120312	0.4364	4.9160
97	PAN130312	0.1770	1.8741
98	PAB000136	0.0760	0.1890
99	PAB100136	0.0906	0.2069
100	PAB125136	0.0907	0.2029

Test: May03_17

dif

Date: Thu May 3 13:28:18 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.2417	0.6063
102	PRV000001	0.0146	0.0735
103	PSR000001	0.1392	0.3097
104	PFM000001	0.0055	0.2355
105	PAN000136	0.4761	0.3679
106	PFM000002	0.0517	2.1023
107	EMPTY	0.0015	38.4615
108	EMPTY	0.0011	0.0117
109	EMPTY	0.0010	45.4545
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	80.0000
112	VPW000001	0.0625	0.0620
113	VPW000002	0.0586	0.0488
114	VPW000003	0.1016	0.0686
115	VPW000004	0.0937	0.0886
116	VPW000005	0.0000	0.0000
117	VPW000006	0.0547	0.0372
118	IPW000001	25.1851	4.5020
119	IPW000002	30.9475	2.4091
120	IPW000003	28.2362	2.1535
121	IPW000004	5.5469	1.4344
122	IPW000005	0.1367	0.0537
123	IPW000006	0.7813	0.2930
124	EMPTY	0.0008	3.6866
125	EMPTY	0.0016	10.9589
126	EMPTY	0.0012	6.8182
127	EMPTY	0.0019	10.7955
128	IHT000001	0.0274	0.0206
129	IHT000002	0.0390	0.0293
130	IHT000003	0.0742	0.0560
131	IHT000004	0.1172	0.0880
132	IHT000005	0.1328	0.1016
133	IHT000006	0.0899	0.0709
134	IHT000007	0.1406	0.1069
135	IHT000008	0.1016	0.0772
136	IHT000009	0.1093	0.0826
137	IHT000010	0.0625	0.0476
138	IHT000011	0.0781	0.0577
139	IHT000012	0.1016	0.0786
140	IHT000013	0.0196	0.0211
141	IHT000014	0.1172	0.0908
142	IHT000015	0.0078	0.0080
143	IHT000016	0.0390	0.0442
144	IHT000017	0.5820	0.5466
145	IHT000018	0.0508	0.0466
146	IHT000019	0.0430	0.0410
147	IHT000020	0.0156	0.0145
148	IHT000021	0.1524	9.9342
149	IHT000022	0.0625	0.0681
150	IHT000023	0.0547	0.0513
151	IHT000024	0.0039	0.0054
152	IHT000025	0.0235	0.0225
153	IHT000026	0.0274	0.0259
154	IHT000027	0.0195	0.0218
155	IHT000028	0.1055	0.1158

Test: May03_17 dif Date: Thu May 3 13:28:18 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1133	0.1065
157	IHT000030	0.0976	0.0901
158	IHT000031	0.0937	0.0874
159	IHT000032	0.1328	0.1225
160	IHT000033	0.1445	0.1334
161	IHT000034	0.0703	0.0739
162	IHT000035	0.1289	0.1029
163	IHT000036	0.0390	0.0417

Velocity 1 = 3.4600 (ft/sec) (+/- 14.2857 %)
Velocity 2 = 3.5221 (ft/sec) (+/- 5.2006 %)
Pressure drop = -4.8242 (psi)
Tsats in = 267.8430 (deg F) Tsats out = 274.3229 (deg F)
Phi inner = 101.1123 (kBtu/hr-ft2) (+/- 1.4117 %)
Phi outer = 100.9510 (kBtu/hr-ft2) (+/- 1.6187 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.1158	75.5411	75.2732	1.4127e-01	1.9000e+00
1	TRF000002	75.3371	75.7600	75.6459	1.2241e-01	1.9000e+00
2	TFM000001	87.0879	87.9266	87.5029	2.0843e-01	1.9002e+00
3	TIN000001	87.0979	87.8329	87.4969	1.6706e-01	1.9002e+00
4	TRV000001	87.3390	88.0713	87.6325	2.0375e-01	1.9002e+00
5	TSR000001	135.1146	140.3334	137.8664	1.4756e+00	1.9031e+00
6	TAO020136	194.7533	195.8197	195.3078	2.7421e-01	1.9105e+00
7	TAO050136	207.2808	208.5218	207.9329	2.9398e-01	1.9128e+00
8	TAO070136	203.6640	205.4978	204.6330	3.4869e-01	1.9122e+00
9	TAO080136	236.8245	237.6687	237.2407	1.9044e-01	1.9188e+00
10	TAO090136	247.5066	249.2793	248.3128	4.0900e-01	1.9213e+00
11	TAO100136	247.9519	249.6319	248.8778	3.7661e-01	1.9214e+00
12	TAO105136	253.7429	255.3283	254.5972	3.3252e-01	1.9228e+00
13	TAO110136	263.0706	265.1784	264.4122	5.1789e-01	1.9253e+00
14	TAO115136	263.0735	264.3745	263.6683	3.3858e-01	1.9251e+00
15	TAO120136	272.5511	273.9202	273.4053	3.1864e-01	1.9277e+00
16	TAO125136	267.7185	270.0230	268.8470	5.4986e-01	1.9265e+00
17	TAO130136	261.7050	262.8028	262.1281	2.1585e-01	1.9247e+00
18	TAO120048	283.4054	284.0467	283.8047	1.5561e-01	1.9306e+00
19	TAO130048	276.9390	277.6722	277.2399	1.7278e-01	1.9287e+00
20	TAO120224	273.5319	274.4526	273.9887	2.0622e-01	1.9278e+00
21	TAO130224	260.7160	262.3702	261.4773	3.6283e-01	1.9245e+00
22	TAO120312	256.3475	257.2784	256.8053	1.9713e-01	1.9234e+00
23	TAO130312	277.7184	278.7273	278.2209	1.9720e-01	1.9290e+00
24	TRT020000	196.3932	197.4595	197.0099	2.3569e-01	1.9108e+00
25	TRT070000	242.7302	243.7697	243.1802	2.1701e-01	1.9201e+00
26	TRT100000	274.7348	275.7454	275.1133	2.1286e-01	1.9281e+00
27	TRT120000	282.0618	283.6173	282.7206	3.6179e-01	1.9302e+00
28	TRT125000	287.5769	288.3047	287.9766	1.8465e-01	1.9317e+00
29	TRT130000	280.2638	280.9054	280.5754	1.5151e-01	1.9296e+00
30	EMPTY	39.1464	40.0646	39.5919	2.1459e-01	1.9011e+00
31	TAF050136	138.9893	141.3986	139.9008	5.4869e-01	1.9033e+00
32	TAF070136	159.7195	162.4803	160.7022	5.1627e-01	1.9055e+00
33	TAF080136	234.3747	237.0856	236.0740	6.9953e-01	1.9185e+00
34	TAF090136	172.5668	175.2154	173.7012	7.4689e-01	1.9072e+00
35	TAF100136	189.9908	195.4294	192.0822	1.4272e+00	1.9100e+00
36	TAF105136	194.4733	199.4595	196.2501	1.1152e+00	1.9107e+00
37	TAF110136	222.2147	226.1879	223.8092	8.6647e-01	1.9159e+00
38	TAF115136	207.5720	210.1559	208.8856	5.8619e-01	1.9130e+00
39	TAF120136	247.5686	251.4776	249.7584	7.2112e-01	1.9216e+00
40	TAF125136	217.6729	221.4541	219.2478	8.0790e-01	1.9149e+00
41	TAF130136	221.6103	227.1037	223.2716	1.2045e+00	1.9158e+00
42	TAF120048	229.9160	232.0093	230.8261	4.7591e-01	1.9173e+00
43	TAF130048	241.1610	244.1602	242.4699	6.2645e-01	1.9199e+00
44	TAF120224	215.1642	218.2170	216.5345	5.5657e-01	1.9144e+00
45	TAF130224	223.9680	226.3528	225.1511	4.9365e-01	1.9161e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1629	2.0793e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8903	1.1874e-01	1.9011e+00
48	TAI130138	268.4438	270.1073	269.1317	3.5670e-01	1.9265e+00
49	TAI130226	266.6664	268.5091	267.8969	3.6491e-01	1.9262e+00
50	TAI130314	277.7976	279.1789	278.5713	2.8937e-01	1.9291e+00
51	TAI130042	275.1540	276.4429	275.9790	2.7269e-01	1.9284e+00
52	TRR130090	148.1716	154.5464	150.5283	1.9277e+00	1.9044e+00
53	TSI000001	48.3506	49.2155	48.7876	1.7474e-01	1.9003e+00
54	TSI000002	124.1940	127.6465	125.6492	8.6556e-01	1.9021e+00
55	TSO000001	46.1625	47.1427	46.7719	1.8526e-01	1.9004e+00
56	TSO000002	65.7283	66.5816	66.1935	1.8882e-01	1.9000e+00
57	TAF020136	105.0649	107.4544	106.1337	4.3270e-01	1.9009e+00
58	TAF120312	229.1363	232.6293	230.6476	6.5993e-01	1.9173e+00
59	TAF130312	248.2912	250.9938	249.5478	6.5285e-01	1.9216e+00
60	EMPTY	4.4531	4.4922	4.4708	8.1281e-03	0.0000e+00
61	EMPTY	4.4482	4.4727	4.4580	5.3123e-03	0.0000e+00
62	EMPTY	4.4385	4.4580	4.4458	4.0971e-03	0.0000e+00
63	EMPTY	4.4336	4.4482	4.4403	4.0542e-03	0.0000e+00
64	EMPTY	2.0703	2.0752	2.0735	2.3365e-03	0.0000e+00
65	EMPTY	2.0801	2.0850	2.0846	1.3381e-03	0.0000e+00
66	EMPTY	2.0850	2.0947	2.0903	1.7784e-03	0.0000e+00
67	EMPTY	2.0947	2.1094	2.0996	1.7086e-03	0.0000e+00
68	EMPTY	2.0996	2.1045	2.1040	1.4797e-03	0.0000e+00
69	EMPTY	2.1094	2.1143	2.1119	2.4642e-03	0.0000e+00
70	EMPTY	2.1143	2.1191	2.1188	1.1714e-03	0.0000e+00
71	EMPTY	2.1289	2.1338	2.1329	1.8950e-03	0.0000e+00
72	EMPTY	2.1338	2.1436	2.1381	1.8821e-03	0.0000e+00
73	EMPTY	2.1436	2.1484	2.1479	1.6028e-03	0.0000e+00
74	EMPTY	2.1484	2.1582	2.1534	1.2041e-03	0.0000e+00
75	EMPTY	2.1533	2.1631	2.1617	2.4244e-03	0.0000e+00
76	EMPTY	2.1631	2.1680	2.1675	1.4797e-03	0.0000e+00
77	EMPTY	2.1729	2.1826	2.1777	9.8648e-04	0.0000e+00
78	EMPTY	2.1875	2.1924	2.1919	1.4797e-03	0.0000e+00
79	EMPTY	2.2070	2.2119	2.2071	6.9053e-04	0.0000e+00
80	PAN020136	-17.0369	-15.0533	-15.9581	3.7345e-01	8.7091e-01
81	PAN050136	-32.6959	-31.7803	-32.2686	2.0908e-01	1.6819e+00
82	PAN070136	-25.2163	-19.7231	-24.5296	1.5043e+00	8.7216e-01
83	PAN080136	-13.8561	-2.4120	-10.0124	2.7320e+00	8.7036e-01
84	PAN090136	-12.1100	-0.3607	-9.0491	2.7851e+00	8.7029e-01
85	PAN100136	-13.3322	-3.1851	-9.6823	2.1449e+00	8.7034e-01
86	PAN105136	-6.5237	0.1139	-4.6408	1.1302e+00	8.7008e-01
87	PAN110136	-6.0176	-2.6607	-4.7298	8.9527e-01	8.7008e-01
88	PAN115136	-7.2353	-1.5133	-4.4582	1.0208e+00	8.7007e-01
89	PAN120136	-6.9639	-1.6996	-4.9131	9.4032e-01	8.7009e-01
90	PAN125136	-5.7490	3.6351	-3.9546	2.1000e+00	8.7006e-01
91	PAN130136	-6.7586	-4.3172	-5.5715	5.6742e-01	8.7011e-01
92	PAN120048	-10.7236	-9.5792	-10.2796	2.7081e-01	8.7038e-01
93	PAN130048	-11.1651	-9.5629	-10.1260	2.9524e-01	8.7037e-01
94	PAN120224	-12.0909	-6.9792	-9.0529	9.7408e-01	8.7029e-01
95	PAN130224	-10.5446	-8.1795	-9.8350	4.7439e-01	8.7035e-01
96	PAN120312	-11.2973	-2.7524	-8.7948	1.5645e+00	8.7028e-01
97	PAN130312	-10.2026	-8.3716	-9.4550	4.2043e-01	8.7032e-01
98	PAB000136	40.1766	40.4512	40.3194	6.0390e-02	5.8869e-01
99	PAB100136	43.6908	44.1028	43.9819	7.9427e-02	5.9033e-01
100	PAB125136	44.8281	45.0112	44.9087	4.7662e-02	5.9077e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8162	40.1824	40.0310	8.7402e-02	7.5665e-01
102	PRV000001	19.7263	19.7263	19.7263	1.1560e-05	7.5162e-01
103	PSR000001	45.1592	45.4034	45.2227	6.6358e-02	7.5847e-01
104	PFM000001	1.5863	1.8610	1.7621	7.1253e-02	5.0002e-01
105	PAN000136	-137.7338	-131.7829	-133.5590	1.3326e+00	4.9313e+00
106	PFM000002	1.8054	1.8893	1.8276	1.9308e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0034	2.4662e-03	0.0000e+00
108	EMPTY	-9.6387	-9.1016	-9.3287	1.2625e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0021	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	100.0113	101.3785	100.6870	3.3063e-01	1.0105e+00
113	VPW000002	119.7604	120.5416	120.1236	1.6746e-01	1.0842e+00
114	VPW000003	147.4534	148.4300	147.8988	2.3689e-01	1.2015e+00
115	VPW000004	104.9429	106.3101	105.5991	3.3426e-01	1.0284e+00
116	VPW000005	139.5545	141.1170	140.3007	3.8599e-01	1.1682e+00
117	VPW000006	146.2553	147.6225	146.9897	3.2673e-01	1.1975e+00
118	IPW000001	539.9731	549.7349	544.6978	2.5284e+00	9.1721e+00
119	IPW000002	1301.2717	1311.0281	1305.0574	2.2786e+00	1.3111e+01
120	IPW000003	1318.5748	1328.3248	1323.0211	2.5238e+00	1.3223e+01
121	IPW000004	376.5869	382.9346	379.7316	1.2716e+00	3.6055e+00
122	IPW000005	251.4867	254.9043	253.2833	7.6684e-01	2.8291e+00
123	IPW000006	265.1085	267.5499	266.2510	5.8867e-01	2.9025e+00
124	EMPTY	-0.0293	-0.0098	-0.0198	3.8725e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.8946e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	2.7832e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.5908e-03	0.0000e+00
128	IHT000001	131.3063	134.0407	132.6227	5.3788e-01	4.3092e+00
129	IHT000002	131.6256	134.1647	133.0943	5.2975e-01	4.3106e+00
130	IHT000003	131.0246	133.5637	132.4855	5.3994e-01	4.3087e+00
131	IHT000004	131.6932	134.2323	133.0878	5.7590e-01	4.3106e+00
132	IHT000005	129.2518	131.9862	130.6503	5.7637e-01	4.3031e+00
133	IHT000006	125.5071	128.0461	126.7570	6.0618e-01	4.2915e+00
134	IHT000007	130.1983	132.7374	131.4287	5.4712e-01	4.3055e+00
135	IHT000008	130.0293	132.9590	131.4863	5.388e-01	4.3057e+00
136	IHT000009	131.1110	133.8454	132.2086	5.6205e-01	4.3079e+00
137	IHT000010	130.1307	132.4745	131.2948	5.4813e-01	4.3051e+00
138	IHT000011	134.1609	136.5046	135.3524	5.5978e-01	4.3176e+00
139	IHT000012	127.8621	130.4011	129.1200	5.7880e-01	4.2985e+00
140	IHT000013	91.4964	93.8401	92.7386	5.3635e-01	4.2036e+00
141	IHT000014	127.2423	130.1720	128.8790	6.1875e-01	4.2978e+00
142	IHT000015	95.3313	97.8704	96.6789	5.3416e-01	4.2124e+00
143	IHT000016	87.0906	89.2390	88.0750	5.1139e-01	4.1935e+00
144	IHT000017	105.6641	108.7891	107.3320	6.3406e-01	4.2382e+00
145	IHT000018	108.0266	109.9797	108.9875	5.1424e-01	4.2424e+00
146	IHT000019	103.3767	105.7204	104.8649	4.3743e-01	4.2320e+00
147	IHT000020	106.2049	108.3534	107.5682	4.7267e-01	4.2388e+00
148	IHT000021	-3.1513	-0.4169	-1.3935	5.4247e-01	4.1000e+00
149	IHT000022	90.6288	92.3866	91.6795	4.7986e-01	4.2013e+00
150	IHT000023	105.6040	107.5571	106.7134	4.5239e-01	4.2366e+00
151	IHT000024	70.6881	72.6412	71.9029	4.4693e-01	4.1626e+00
152	IHT000025	103.5795	105.5326	104.6342	4.7186e-01	4.2314e+00
153	IHT000026	105.0668	106.8247	106.0317	4.7418e-01	4.2349e+00
154	IHT000027	87.9019	90.0503	89.1948	5.4375e-01	4.1959e+00
155	IHT000028	90.0466	92.5856	91.1052	6.2026e-01	4.2000e+00

Test: May03_18

sum1

Date: Thu May 3 13:51:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	108.3834	106.6294	6.4656e-01	4.2364e+00
157	IHT000030	107.2792	110.4042	108.5096	6.8487e-01	4.2412e+00
158	IHT000031	106.1749	108.9092	107.3311	6.0982e-01	4.2382e+00
159	IHT000032	107.6285	110.3628	108.6011	6.4897e-01	4.2414e+00
160	IHT000033	107.6097	110.1487	108.5550	6.3302e-01	4.2413e+00
161	IHT000034	93.7988	96.7285	95.0410	5.7691e-01	4.2087e+00
162	IHT000035	123.8131	126.9381	125.1412	5.8394e-01	4.2867e+00
163	IHT000036	92.2213	94.9557	93.5611	5.2201e-01	4.2054e+00

Test: May03_18

sum2

Date: Thu May 3 13:51:14 1990

Page: 1

Velocity 1 = 3.4476 (ft/sec) (+/- 14.3890 %)
Velocity 2 = 3.5611 (ft/sec) (+/- 5.0960 %)
Pressure drop = -4.8235 (psi)
Tsats in = 268.0783 (deg F) Tsats out = 274.5316 (deg F)
Phi inner = 102.1413 (kBtu/hr-ft2) (+/- 1.4089 %)
Phi outer = 100.4996 (kBtu/hr-ft2) (+/- 1.6215 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.1158	75.7538	75.4391	1.7313e-01	1.9000e+00
1	TRF000002	75.5486	75.9715	75.7600	1.3508e-01	1.9000e+00
2	TFM000001	86.4600	87.6126	87.1140	2.1553e-01	1.9002e+00
3	TIN000001	86.4671	87.7280	87.0429	2.4229e-01	1.9002e+00
4	TRV000001	86.9218	87.6549	87.2615	1.8507e-01	1.9002e+00
5	TSR000001	135.4171	139.0318	137.3781	9.6318e-01	1.9031e+00
6	TAO020136	194.7533	196.1106	195.3931	3.1637e-01	1.9106e+00
7	TAO050136	206.9954	208.7125	208.0330	3.9301e-01	1.9128e+00
8	TAO070136	204.5324	206.6543	205.4007	4.7254e-01	1.9123e+00
9	TAO080136	236.8245	237.9496	237.4400	2.4118e-01	1.9188e+00
10	TAO090136	247.8799	249.1866	248.4774	2.8536e-01	1.9213e+00
11	TAO100136	248.1391	249.7256	248.9789	3.7615e-01	1.9215e+00
12	TAO105136	253.5562	255.3288	254.5786	3.7405e-01	1.9228e+00
13	TAO110136	264.0807	265.1805	264.5531	2.7199e-01	1.9253e+00
14	TAO115136	262.7005	264.0958	263.3334	3.8722e-01	1.9250e+00
15	TAO120136	272.9146	274.0144	273.4503	2.8468e-01	1.9277e+00
16	TAO125136	267.8108	269.5628	268.6335	4.3237e-01	1.9264e+00
17	TAO130136	261.8901	262.6239	262.3164	2.1164e-01	1.9248e+00
18	TAO120048	283.5884	284.5955	284.0574	2.0146e-01	1.9306e+00
19	TAO130048	276.8481	277.7645	277.3174	1.9399e-01	1.9287e+00
20	TAO120224	273.6239	274.7290	274.2099	2.9859e-01	1.9279e+00
21	TAO130224	260.6228	263.2912	261.5484	5.2736e-01	1.9246e+00
22	TAO120312	256.3475	257.2784	256.9134	2.0501e-01	1.9234e+00
23	TAO130312	277.8101	278.5441	278.1995	1.8492e-01	1.9290e+00
24	TRT020000	196.3932	197.4595	196.8544	2.4421e-01	1.9108e+00
25	TRT070000	242.5413	243.6738	243.1720	2.6444e-01	1.9201e+00
26	TRT100000	274.9183	275.8372	275.3488	2.0209e-01	1.9282e+00
27	TRT120000	281.8782	283.4348	282.6990	3.2668e-01	1.9302e+00
28	TRT125000	287.5774	288.5773	288.0430	2.2924e-01	1.9318e+00
29	TRT130000	280.0809	280.9061	280.5686	1.7601e-01	1.9296e+00
30	EMPTY	39.1464	40.0646	39.6837	1.8322e-01	1.9011e+00
31	TAF050136	138.1864	140.4953	139.5882	5.9242e-01	1.9033e+00
32	TAF070136	159.4237	162.8755	160.5768	7.1213e-01	1.9055e+00
33	TAF080136	234.1893	238.3019	236.5197	1.0103e+00	1.9186e+00
34	TAF090136	173.0580	175.6078	174.1919	6.6422e-01	1.9073e+00
35	TAF100136	190.3799	195.2348	192.3620	1.3853e+00	1.9101e+00
36	TAF105136	194.2831	199.3644	196.5273	1.3364e+00	1.9108e+00
37	TAF110136	222.0262	225.9052	223.5563	8.4581e-01	1.9158e+00
38	TAF115136	207.1898	210.2525	208.6868	7.4502e-01	1.9129e+00
39	TAF120136	248.8727	252.0362	250.4995	8.0566e-01	1.9218e+00
40	TAF125136	217.8637	220.4178	219.0750	6.0471e-01	1.9149e+00
41	TAF130136	221.7058	224.2645	222.7719	4.4647e-01	1.9157e+00
42	TAF120048	229.7242	232.5813	231.0690	6.5749e-01	1.9174e+00
43	TAF130048	241.4428	243.7852	242.5491	5.3240e-01	1.9200e+00
44	TAF120224	215.4503	218.6932	216.7407	6.6818e-01	1.9145e+00
45	TAF130224	223.9680	230.8267	225.4628	1.5814e+00	1.9162e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.9203e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8352	1.3909e-01	1.9011e+00
48	TAI130138	268.4444	270.3841	269.2759	4.5565e-01	1.9266e+00
49	TAI130226	266.2993	268.6940	267.9491	4.4923e-01	1.9262e+00
50	TAI130314	278.0738	279.3630	278.6853	2.9691e-01	1.9291e+00
51	TAI130042	275.6147	276.7191	276.1227	2.4337e-01	1.9284e+00
52	TRR130090	145.4732	152.2595	148.5743	1.5927e+00	1.9042e+00
53	TSI000001	48.4593	49.2163	48.8530	1.6906e-01	1.9003e+00
54	TSI000002	119.8162	126.0232	122.8479	1.2098e+00	1.9019e+00
55	TSO000001	46.4889	47.2502	46.8717	1.7889e-01	1.9004e+00
56	TSO000002	65.6222	66.7951	66.2024	2.6842e-01	1.9000e+00
57	TAF020136	104.5446	107.2459	105.9212	5.0974e-01	1.9009e+00
58	TAF120312	229.1363	231.8751	230.5950	5.9640e-01	1.9173e+00
59	TAF130312	247.8264	250.4353	249.3062	5.4187e-01	1.9215e+00
60	EMPTY	4.4434	4.4775	4.4634	8.1496e-03	0.0000e+00
61	EMPTY	4.4385	4.4629	4.4509	6.1771e-03	0.0000e+00
62	EMPTY	4.4287	4.4482	4.4394	5.0964e-03	0.0000e+00
63	EMPTY	4.4189	4.4385	4.4335	4.9805e-03	0.0000e+00
64	EMPTY	2.0654	2.0752	2.0703	2.7902e-03	0.0000e+00
65	EMPTY	2.0752	2.0850	2.0814	2.6174e-03	0.0000e+00
66	EMPTY	2.0850	2.0898	2.0881	2.3675e-03	0.0000e+00
67	EMPTY	2.0947	2.0996	2.0971	2.4642e-03	0.0000e+00
68	EMPTY	2.0947	2.1045	2.1009	2.3778e-03	0.0000e+00
69	EMPTY	2.1094	2.1143	2.1097	1.1714e-03	0.0000e+00
70	EMPTY	2.1143	2.1191	2.1173	2.3941e-03	0.0000e+00
71	EMPTY	2.1289	2.1338	2.1315	2.4583e-03	0.0000e+00
72	EMPTY	2.1338	2.1387	2.1369	2.3675e-03	0.0000e+00
73	EMPTY	2.1436	2.1484	2.1472	2.1635e-03	0.0000e+00
74	EMPTY	2.1533	2.1533	2.1533	0.0000e+00	0.0000e+00
75	EMPTY	2.1582	2.1631	2.1622	1.8950e-03	0.0000e+00
76	EMPTY	2.1631	2.1680	2.1677	1.1714e-03	0.0000e+00
77	EMPTY	2.1777	2.1826	2.1779	9.6655e-04	0.0000e+00
78	EMPTY	2.1875	2.1973	2.1919	1.7784e-03	0.0000e+00
79	EMPTY	2.2021	2.2070	2.2069	6.9053e-04	0.0000e+00
80	PAN020136	-16.8844	-14.9007	-15.8284	3.3571e-01	8.7090e-01
81	PAN050136	-32.2381	-31.4752	-31.8567	1.6955e-01	1.6819e+00
82	PAN070136	-25.2163	-20.1809	-24.1481	1.6966e+00	8.7209e-01
83	PAN080136	-13.8561	-2.1068	-10.3008	2.2280e+00	8.7038e-01
84	PAN090136	-12.0337	-3.5651	-9.7113	1.7698e+00	8.7034e-01
85	PAN100136	-13.2559	-3.8717	-9.2764	1.8382e+00	8.7031e-01
86	PAN105136	-6.5237	-3.3957	-4.9475	8.1905e-01	8.7009e-01
87	PAN110136	-5.9413	-3.1947	-4.6031	6.4998e-01	8.7008e-01
88	PAN115136	-5.9383	-3.0392	-4.4582	5.9137e-01	8.7007e-01
89	PAN120136	-6.1247	-3.3781	-4.7392	5.8762e-01	8.7008e-01
90	PAN125136	-5.3676	-3.0024	-4.6077	5.7569e-01	8.7008e-01
91	PAN130136	-5.9957	-3.9357	-5.2358	4.3295e-01	8.7010e-01
92	PAN120048	-10.7236	-7.2141	-9.5639	7.9197e-01	8.7033e-01
93	PAN130048	-11.3177	-9.1052	-10.0314	4.0956e-01	8.7036e-01
94	PAN120224	-12.7776	-6.9030	-9.0651	9.3816e-01	8.7030e-01
95	PAN130224	-13.6726	-7.8743	-9.9418	1.3613e+00	8.7035e-01
96	PAN120312	-10.6106	-7.7115	-9.0634	5.2430e-01	8.7030e-01
97	PAN130312	-10.2026	-8.6768	-9.5511	3.6089e-01	8.7033e-01
98	PAB000136	40.2224	40.6344	40.4787	8.7248e-02	5.8876e-01
99	PAB100136	43.7366	44.2859	44.1046	1.1400e-01	5.9039e-01
100	PAB125136	44.8739	45.1943	45.0634	8.1158e-02	5.9084e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1824	40.6707	40.4339	1.1411e-01	7.5678e-01
102	PRV0000001	19.7263	19.8484	19.8410	2.9284e-02	7.5164e-01
103	PSR0000001	45.2813	45.5254	45.3716	6.4358e-02	7.5853e-01
104	PFM0000001	1.4948	1.8610	1.7493	7.4653e-02	5.0002e-01
105	PAN000136	-135.4450	-132.2406	-133.5407	6.6920e-01	4.9313e+00
106	PFM0000002	1.8390	1.8893	1.8695	1.2076e-02	2.0005e-01
107	EMPTY	-0.0049	-0.0049	-0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-9.6094	-9.1016	-9.3255	1.2413e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0098	0.0000	-0.0026	2.6488e-03	0.0000e+00
112	VPW0000001	99.6207	102.9410	100.6480	5.6746e-01	1.0103e+00
113	VPW0000002	119.5650	121.3229	120.0962	3.2066e-01	1.0841e+00
114	VPW0000003	147.0628	149.6019	147.8754	4.5225e-01	1.2014e+00
115	VPW0000004	104.5523	107.6773	105.5444	5.8772e-01	1.0282e+00
116	VPW0000005	139.3592	142.6795	140.3514	6.8668e-01	1.1684e+00
117	VPW0000006	146.0600	148.7943	147.0991	4.8237e-01	1.1979e+00
118	IPW0000001	522.4020	543.8778	529.1572	3.7670e+00	9.1151e+00
119	IPW0000002	1299.3206	1324.6870	1309.1160	4.8038e+00	1.3136e+01
120	IPW0000003	1328.3248	1357.5748	1338.3480	5.3149e+00	1.3319e+01
121	IPW0000004	372.6807	385.8643	377.0656	2.5391e+00	3.5879e+00
122	IPW0000005	251.9749	260.2749	254.2695	1.5257e+00	2.8346e+00
123	IPW0000006	265.1085	271.4562	267.1006	1.1954e+00	2.9073e+00
124	EMPTY	-0.0342	-0.0195	-0.0246	3.6858e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0165	2.9413e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0200	3.3087e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT0000001	131.5016	134.8220	132.4821	7.1408e-01	4.3087e+00
129	IHT0000002	131.8209	135.3365	132.9380	7.0259e-01	4.3101e+00
130	IHT0000003	131.2199	134.3449	132.3332	6.8941e-01	4.3083e+00
131	IHT0000004	131.6932	134.6229	132.9042	6.9250e-01	4.3100e+00
132	IHT0000005	129.2518	132.5721	130.5135	7.1921e-01	4.3027e+00
133	IHT0000006	125.5071	128.6321	126.6086	6.9560e-01	4.2910e+00
134	IHT0000007	130.0030	133.5186	131.3389	7.0405e-01	4.3052e+00
135	IHT0000008	130.2246	133.5449	131.3496	6.9313e-01	4.3053e+00
136	IHT0000009	130.9157	134.4314	132.1383	6.8323e-01	4.3077e+00
137	IHT0000010	129.5448	132.8651	131.1229	6.6127e-01	4.3046e+00
138	IHT0000011	133.9656	136.7000	135.2664	6.3944e-01	4.3174e+00
139	IHT0000012	128.2527	130.7917	129.1825	6.6913e-01	4.2987e+00
140	IHT0000013	91.4964	94.4261	92.7659	7.0061e-01	4.2036e+00
141	IHT0000014	127.2423	130.9533	128.7970	7.7521e-01	4.2975e+00
142	IHT0000015	95.1360	98.2610	96.6359	6.9412e-01	4.2123e+00
143	IHT0000016	86.8953	89.8250	88.0281	6.9699e-01	4.1934e+00
144	IHT0000017	105.2734	108.2031	106.8164	6.7341e-01	4.2369e+00
145	IHT0000018	108.2219	110.7610	109.1515	6.0304e-01	4.2428e+00
146	IHT0000019	103.5720	106.3063	105.0563	6.0490e-01	4.2325e+00
147	IHT0000020	106.4002	108.7440	107.6620	5.7887e-01	4.2390e+00
148	IHT0000021	-2.5653	-0.2216	-1.3700	5.8213e-01	4.1000e+00
149	IHT0000022	90.4334	93.3631	91.7850	7.0237e-01	4.2015e+00
150	IHT0000023	105.6040	107.7524	106.7329	4.8374e-01	4.2366e+00
151	IHT0000024	71.0787	72.8365	71.9732	4.8180e-01	4.1627e+00
152	IHT0000025	103.7748	105.9232	104.6655	5.2223e-01	4.2315e+00
153	IHT0000026	105.0668	107.2153	106.0552	4.8874e-01	4.2349e+00
154	IHT0000027	87.9019	91.0269	89.1988	6.2485e-01	4.1959e+00
155	IHT0000028	89.4606	92.5856	91.0622	7.6514e-01	4.1999e+00

Test: May03_18

sum2

Date: Thu May 3 13:51:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0631	108.3834	106.5396	6.8363e-01	4.2362e+00
157	IHT000030	107.0838	109.8182	108.4042	6.3449e-01	4.2409e+00
158	IHT000031	105.7842	108.7139	107.2139	6.2694e-01	4.2379e+00
159	IHT000032	107.2378	109.9722	108.4761	6.0952e-01	4.2411e+00
160	IHT000033	107.2190	109.7581	108.3948	6.0809e-01	4.2409e+00
161	IHT000034	93.6035	96.1426	94.7832	6.6376e-01	4.2081e+00
162	IHT000035	123.4225	127.1334	124.9380	8.0825e-01	4.2861e+00
163	IHT000036	92.0260	95.3463	93.4478	7.0921e-01	4.2051e+00

Test: May03_18 dif Date: Thu May 3 13:51:14 1990 Page: 1

Velocity 1 = 0.012400 (ft/sec)

Velocity 2 = 0.039000 (ft/sec)

Pressure Drop = 0.000700 (psi)

Tsat in = 0.235321 (deg F) Tsat out = 0.208679 (deg F)

Phi inner = 1.028999 (kBtu/hr-ft2) Phi outer = 0.451393 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1659	0.2204
1	TRF000002	0.1141	0.1508
2	TFM000001	0.3889	0.4444
3	TIN000001	0.4540	0.5189
4	TRV000001	0.3710	0.4234
5	TSR000001	0.4883	0.3542
6	TAO020136	0.0853	0.0437
7	TAO050136	0.1001	0.0481
8	TAO070136	0.7677	0.3752
9	TAO080136	0.1993	0.0840
10	TAO090136	0.1646	0.0663
11	TAO100136	0.1011	0.0406
12	TAO105136	0.0186	0.0073
13	TAO110136	0.1409	0.0533
14	TAO115136	0.3349	0.1270
15	TAO120136	0.0450	0.0165
16	TAO125136	0.2135	0.0794
17	TAO130136	0.1883	0.0718
18	TAO120048	0.2527	0.0890
19	TAO130048	0.0775	0.0280
20	TAO120224	0.2212	0.0807
21	TAO130224	0.0711	0.0272
22	TAO120312	0.1081	0.0421
23	TAO130312	0.0214	0.0077
24	TRT020000	0.1555	0.0789
25	TRT070000	0.0082	0.0034
26	TRT100000	0.2355	0.0856
27	TRT120000	0.0216	0.0076
28	TRT125000	0.0664	0.0231
29	TRT130000	0.0068	0.0024
30	EMPTY	0.0918	0.2319
31	TAF050136	0.3126	0.2234
32	TAF070136	0.1254	0.0780
33	TAF080136	0.4457	0.1888
34	TAF090136	0.4907	0.2825
35	TAF100136	0.2798	0.1457
36	TAF105136	0.2772	0.1412
37	TAF110136	0.2529	0.1130
38	TAF115136	0.1988	0.0952
39	TAF120136	0.7411	0.2967
40	TAF125136	0.1728	0.0788
41	TAF130136	0.4997	0.2238
42	TAF120048	0.2429	0.1052
43	TAF130048	0.0792	0.0327
44	TAF120224	0.2062	0.0952
45	TAF130224	0.3117	0.1384

#	Name	Abs Diff	%Diff
46	EMPTY	0.0689	0.1805
47	EMPTY	0.0551	0.1381
48	TAI130138	0.1442	0.0536
49	TAI130226	0.0522	0.0195
50	TAI130314	0.1140	0.0409
51	TAI130042	0.1437	0.0521
52	TRR130090	1.9540	1.2981
53	TSI000001	0.0654	0.1340
54	TSI000002	2.8013	2.2295
55	TSO000001	0.0998	0.2134
56	TSO000002	0.0089	0.0135
57	TAF020136	0.2125	0.2002
58	TAF120312	0.0526	0.0228
59	TAF130312	0.2416	0.0968
60	EMPTY	0.0074	0.1655
61	EMPTY	0.0071	0.1593
62	EMPTY	0.0064	0.1439
63	EMPTY	0.0068	0.1531
64	EMPTY	0.0032	0.1543
65	EMPTY	0.0032	0.1535
66	EMPTY	0.0022	0.1053
67	EMPTY	0.0025	0.1191
68	EMPTY	0.0031	0.1473
69	EMPTY	0.0022	0.1042
70	EMPTY	0.0015	0.0708
71	EMPTY	0.0014	0.0656
72	EMPTY	0.0012	0.0561
73	EMPTY	0.0007	0.0326
74	EMPTY	0.0001	0.0046
75	EMPTY	0.0005	0.0231
76	EMPTY	0.0002	0.0092
77	EMPTY	0.0002	0.0092
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0002	0.0091
80	PAN020136	0.1297	0.8128
81	PAN050136	0.4119	1.2765
82	PAN070136	0.3815	1.5553
83	PAN080136	0.2884	2.8804
84	PAN090136	0.6622	7.3179
85	PAN100136	0.4059	4.1922
86	PAN105136	0.3067	6.6088
87	PAN110136	0.1267	2.6788
88	PAN115136	0.0000	0.0000
89	PAN120136	0.1739	3.5395
90	PAN125136	0.6531	16.5149
91	PAN130136	0.3357	6.0253
92	PAN120048	0.7157	6.9623
93	PAN130048	0.0946	0.9342
94	PAN120224	0.0122	0.1348
95	PAN130224	0.1068	1.0859
96	PAN120312	0.2686	3.0541
97	PAN130312	0.0961	1.0164
98	PAB000136	0.1593	0.3951
99	PAB100136	0.1227	0.2790
100	PAB125136	0.1547	0.3445

Test: May03_18

dif

Date: Thu May 3 13:51:14 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.4029	1.0065
102	PRV000001	0.1147	0.5815
103	PSR000001	0.1489	0.3293
104	PFM000001	0.0128	0.7264
105	PAN000136	0.0183	0.0137
106	PFM000002	0.0419	2.2926
107	EMPTY	0.0015	44.1176
108	EMPTY	0.0032	0.0343
109	EMPTY	0.0020	95.2381
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0025	2500.0000
112	VPW000001	0.0390	0.0387
113	VPW000002	0.0274	0.0228
114	VPW000003	0.0234	0.0158
115	VPW000004	0.0547	0.0518
116	VPW000005	0.0507	0.0361
117	VPW000006	0.1094	0.0744
118	IPW000001	15.5406	2.8531
119	IPW000002	4.0586	0.3110
120	IPW000003	15.3269	1.1585
121	IPW000004	2.6660	0.7021
122	IPW000005	0.9862	0.3894
123	IPW000006	0.8496	0.3191
124	EMPTY	0.0048	24.2424
125	EMPTY	0.0035	26.9231
126	EMPTY	0.0052	35.1351
127	EMPTY	0.0006	3.7267
128	IHT000001	0.1406	0.1060
129	IHT000002	0.1563	0.1174
130	IHT000003	0.1523	0.1150
131	IHT000004	0.1836	0.1379
132	IHT000005	0.1368	0.1047
133	IHT000006	0.1484	0.1171
134	IHT000007	0.0898	0.0683
135	IHT000008	0.1367	0.1040
136	IHT000009	0.0703	0.0532
137	IHT000010	0.1719	0.1309
138	IHT000011	0.0860	0.0635
139	IHT000012	0.0625	0.0484
140	IHT000013	0.0273	0.0294
141	IHT000014	0.0820	0.0636
142	IHT000015	0.0430	0.0445
143	IHT000016	0.0469	0.0532
144	IHT000017	0.5156	0.4804
145	IHT000018	0.1640	0.1505
146	IHT000019	0.1914	0.1825
147	IHT000020	0.0938	0.0872
148	IHT000021	0.0235	1.6864
149	IHT000022	0.1055	0.1151
150	IHT000023	0.0195	0.0183
151	IHT000024	0.0703	0.0978
152	IHT000025	0.0313	0.0299
153	IHT000026	0.0235	0.0222
154	IHT000027	0.0040	0.0045
155	IHT000028	0.0430	0.0472

Test: May03_18 dif Date: Thu May 3 13:51:14 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0842
157	IHT000030	0.1054	0.0971
158	IHT000031	0.1172	0.1092
159	IHT000032	0.1250	0.1151
160	IHT000033	0.1602	0.1476
161	IHT000034	0.2578	0.2712
162	IHT000035	0.2032	0.1624
163	IHT000036	0.1133	0.1211

Velocity 1 = 3.4407 (ft/sec) (+/- 14.4487 %)
Velocity 2 = 3.5003 (ft/sec) (+/- 5.2604 %)
Pressure drop = -4.7954 (psi)
Tsat in = 268.0648 (deg F) Tsat out = 274.5106 (deg F)
Phi inner = 100.6048 (kBtu/hr-ft2) (+/- 1.4132 %)
Phi outer = 100.5474 (kBtu/hr-ft2) (+/- 1.6198 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9663	76.6038	76.2214	1.5480e-01	1.9000e+00
1	TRF000002	76.3942	76.8167	76.5548	1.4514e-01	1.9000e+00
2	TFM000001	86.9857	88.0338	87.5518	2.1173e-01	1.9002e+00
3	TIN000001	87.4124	87.9377	87.6981	1.5596e-01	1.9002e+00
4	TRV000001	86.5086	87.5561	86.9651	2.3608e-01	1.9002e+00
5	TSR000001	129.1754	133.3099	131.3590	1.1053e+00	1.9025e+00
6	TAO020136	195.7224	196.8841	196.2568	2.7057e-01	1.9107e+00
7	TAO050136	209.2895	211.3860	210.2603	4.8044e-01	1.9132e+00
8	TAO070136	204.9162	207.2298	206.0777	5.2192e-01	1.9124e+00
9	TAO080136	240.9411	241.6903	241.3158	1.7633e-01	1.9197e+00
10	TAO090136	251.0523	252.5431	251.8235	2.4110e-01	1.9221e+00
11	TAO100136	252.3372	253.7337	253.0221	3.2187e-01	1.9224e+00
12	TAO105136	257.8431	259.5183	258.4875	2.9541e-01	1.9238e+00
13	TAO110136	265.5552	267.6614	266.8687	4.0569e-01	1.9259e+00
14	TAO115136	265.1159	266.5087	265.8516	3.0814e-01	1.9257e+00
15	TAO120136	276.6638	277.6685	277.1274	2.1433e-01	1.9287e+00
16	TAO125136	271.4068	273.1542	272.2566	4.3176e-01	1.9274e+00
17	TAO130136	267.4606	268.6475	268.1042	2.2567e-01	1.9263e+00
18	TAO120048	279.1925	280.0190	279.6442	1.7184e-01	1.9294e+00
19	TAO130048	274.7440	275.3882	275.0678	1.5886e-01	1.9281e+00
20	TAO120224	278.0383	279.0488	278.4758	2.4444e-01	1.9291e+00
21	TAO130224	265.3159	266.7848	265.9659	3.1185e-01	1.9257e+00
22	TAO120312	257.4641	258.5809	258.0636	1.9996e-01	1.9237e+00
23	TAO130312	274.9702	275.7057	275.3527	1.6645e-01	1.9282e+00
24	TRT020000	193.8668	195.3234	194.6204	3.0998e-01	1.9104e+00
25	TRT070000	239.9846	241.3081	240.6996	2.9515e-01	1.9195e+00
26	TRT100000	267.0107	267.6573	267.4098	1.4500e-01	1.9261e+00
27	TRT120000	274.8167	275.6446	275.1186	1.8399e-01	1.9281e+00
28	TRT125000	286.2207	286.7684	286.4910	1.4951e-01	1.9313e+00
29	TRT130000	278.6200	279.5368	279.0237	1.6042e-01	1.9292e+00
30	EMPTY	39.1464	40.0646	39.6011	2.0474e-01	1.9011e+00
31	TAF050136	139.5952	143.2063	141.2287	8.2745e-01	1.9034e+00
32	TAF070136	162.3887	166.6178	163.9235	7.7623e-01	1.9059e+00
33	TAF080136	238.4953	241.3856	240.2509	5.8073e-01	1.9194e+00
34	TAF090136	174.9225	176.2947	175.6715	3.5283e-01	1.9075e+00
35	TAF100136	195.1376	198.7208	196.3043	6.9102e-01	1.9107e+00
36	TAF105136	199.4648	204.2433	201.2554	1.0771e+00	1.9116e+00
37	TAF110136	225.8143	230.1544	227.8681	8.6939e-01	1.9167e+00
38	TAF115136	212.4514	215.4087	213.5363	6.7296e-01	1.9138e+00
39	TAF120136	256.6788	259.1789	257.7757	5.5453e-01	1.9236e+00
40	TAF125136	224.2901	227.1148	225.3958	5.5319e-01	1.9162e+00
41	TAF130136	229.6559	231.8259	230.9245	5.1595e-01	1.9174e+00
42	TAF120048	225.9040	228.0995	226.8013	4.2739e-01	1.9165e+00
43	TAF130048	236.9370	239.7558	237.9902	5.7366e-01	1.9189e+00
44	TAF120224	223.2597	226.1071	224.5511	6.6836e-01	1.9160e+00
45	TAF130224	231.3942	233.5780	232.1735	5.0837e-01	1.9176e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0342	2.2452e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8627	1.1947e-01	1.9011e+00
48	TAI130138	274.3503	275.5473	274.9543	2.9423e-01	1.9281e+00
49	TAI130226	272.7393	274.2083	273.4114	3.2041e-01	1.9277e+00
50	TAI130314	276.5061	277.7961	277.0958	3.0424e-01	1.9287e+00
51	TAI130042	274.3255	275.6145	274.9813	3.0836e-01	1.9281e+00
52	TRR130090	147.0761	152.2621	149.5751	9.2036e-01	1.9043e+00
53	TSI000001	48.4617	49.3279	48.8168	2.1307e-01	1.9003e+00
54	TSI000002	137.4465	140.4633	139.0763	7.1118e-01	1.9032e+00
55	TSO000001	46.3760	47.0297	46.6463	2.2233e-01	1.9004e+00
56	TSO000002	66.1567	66.9037	66.5666	1.8829e-01	1.9000e+00
57	TAF020136	105.4777	107.7620	106.6617	4.9588e-01	1.9009e+00
58	TAF120312	225.8264	228.1929	227.0988	5.5851e-01	1.9166e+00
59	TAF130312	244.9348	247.8294	246.1644	6.7251e-01	1.9208e+00
60	EMPTY	4.3457	4.3799	4.3622	6.6094e-03	0.0000e+00
61	EMPTY	4.3408	4.3604	4.3502	4.1666e-03	0.0000e+00
62	EMPTY	4.3311	4.3457	4.3376	2.8946e-03	0.0000e+00
63	EMPTY	4.3262	4.3359	4.3322	2.8862e-03	0.0000e+00
64	EMPTY	2.0264	2.0313	2.0274	2.0432e-03	0.0000e+00
65	EMPTY	2.0361	2.0410	2.0396	2.2603e-03	0.0000e+00
66	EMPTY	2.0410	2.0508	2.0455	1.9331e-03	0.0000e+00
67	EMPTY	2.0508	2.0557	2.0544	2.1635e-03	0.0000e+00
68	EMPTY	2.0557	2.0605	2.0593	2.1635e-03	0.0000e+00
69	EMPTY	2.0654	2.0703	2.0687	2.3365e-03	0.0000e+00
70	EMPTY	2.0703	2.0801	2.0741	2.2689e-03	0.0000e+00
71	EMPTY	2.0850	2.0898	2.0889	1.9730e-03	0.0000e+00
72	EMPTY	2.0898	2.0996	2.0938	2.4164e-03	0.0000e+00
73	EMPTY	2.0996	2.1094	2.1043	3.1133e-03	0.0000e+00
74	EMPTY	2.1045	2.1143	2.1114	2.6267e-03	0.0000e+00
75	EMPTY	2.1143	2.1240	2.1189	3.1133e-03	0.0000e+00
76	EMPTY	2.1191	2.1289	2.1252	2.5266e-03	0.0000e+00
77	EMPTY	2.1338	2.1387	2.1359	2.4484e-03	0.0000e+00
78	EMPTY	2.1436	2.1533	2.1502	2.5648e-03	0.0000e+00
79	EMPTY	2.1631	2.1680	2.1657	2.4583e-03	0.0000e+00
80	PAN020136	-18.0288	-14.5955	-15.6240	6.2786e-01	8.7088e-01
81	PAN050136	-33.7640	-31.3226	-32.4060	6.6921e-01	1.6820e+00
82	PAN070136	-25.1400	-17.8920	-22.0272	1.8370e+00	8.7174e-01
83	PAN080136	-13.9324	-5.0823	-12.5713	2.2208e+00	8.7057e-01
84	PAN090136	-12.0337	-9.0583	-10.6818	6.9431e-01	8.7041e-01
85	PAN100136	-10.7382	-7.5339	-8.8400	7.2929e-01	8.7028e-01
86	PAN105136	-6.2948	-0.0387	-4.4149	9.1355e-01	8.7007e-01
87	PAN110136	-6.0939	0.4674	-4.3529	1.0990e+00	8.7007e-01
88	PAN115136	-7.2353	-3.0392	-4.5727	6.6122e-01	8.7008e-01
89	PAN120136	-5.6669	-3.6070	-4.6217	3.8418e-01	8.7008e-01
90	PAN125136	-5.2150	-3.6128	-4.6489	3.2954e-01	8.7008e-01
91	PAN130136	-5.9194	-4.8513	-5.4082	2.6033e-01	8.7011e-01
92	PAN120048	-10.7236	-8.1296	-9.8874	5.8307e-01	8.7035e-01
93	PAN130048	-10.4784	-9.4866	-10.0329	2.4631e-01	8.7036e-01
94	PAN120224	-10.2599	-7.4370	-9.0682	6.0603e-01	8.7030e-01
95	PAN130224	-10.4683	-9.1713	-9.9388	2.6849e-01	8.7035e-01
96	PAN120312	-10.0003	-6.8722	-9.1000	7.6232e-01	8.7030e-01
97	PAN130312	-10.3552	-8.6005	-9.6823	3.1237e-01	8.7034e-01
98	PAB000136	40.3139	40.5886	40.4696	6.0645e-02	5.8876e-01
99	PAB100136	44.0112	44.1943	44.1229	4.2542e-02	5.9040e-01
100	PAB125136	44.9655	45.1486	45.0479	4.7157e-02	5.9083e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0604	40.5486	40.3582	8.9465e-02	7.5676e-01
102	PRV000001	19.4821	19.6042	19.5969	2.9284e-02	7.5160e-01
103	PSR000001	45.2813	45.4034	45.3765	5.1081e-02	7.5853e-01
104	PFM000001	1.5863	1.8610	1.7420	7.4562e-02	5.0002e-01
105	PAN000136	-135.4450	-131.3251	-132.7625	7.9022e-01	4.9312e+00
106	PFM000002	1.7719	1.8390	1.8044	1.3733e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0035	2.4244e-03	0.0000e+00
108	EMPTY	-9.8828	-9.3066	-9.7096	1.3685e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	100.4019	100.9878	100.7105	1.1223e-01	1.0106e+00
113	VPW000002	119.9557	120.3463	120.1314	8.1347e-02	1.0843e+00
114	VPW000003	147.8440	148.2347	148.0082	1.2701e-01	1.2020e+00
115	VPW000004	105.5288	105.9195	105.6733	1.1712e-01	1.0286e+00
116	VPW000005	140.1405	140.7264	140.5272	1.5020e-01	1.1692e+00
117	VPW000006	147.0365	147.4271	147.2436	1.0741e-01	1.1986e+00
118	IPW000001	551.6872	557.5443	553.3660	1.3088e+00	9.2044e+00
119	IPW000002	1277.8566	1283.7103	1280.3152	1.3547e+00	1.2958e+01
120	IPW000003	1310.7749	1316.6249	1313.9343	1.3585e+00	1.3166e+01
121	IPW000004	385.3760	386.8409	386.1964	3.3366e-01	3.6481e+00
122	IPW000005	253.4396	255.3925	254.4160	3.4169e-01	2.8354e+00
123	IPW000006	265.1085	267.0616	265.9385	4.3282e-01	2.9007e+00
124	EMPTY	-0.0293	-0.0098	-0.0206	3.7291e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	2.8334e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0171	3.7239e-03	0.0000e+00
128	IHT000001	131.6970	134.2360	132.8610	6.0869e-01	4.3099e+00
129	IHT000002	132.2115	134.3600	133.2544	5.6167e-01	4.3111e+00
130	IHT000003	131.6106	133.9543	132.6808	5.5837e-01	4.3093e+00
131	IHT000004	132.0838	134.6229	133.1229	5.6004e-01	4.3107e+00
132	IHT000005	129.8377	131.7908	130.6542	5.8353e-01	4.3031e+00
133	IHT000006	125.8977	128.0461	126.6671	5.3147e-01	4.2912e+00
134	IHT000007	130.5889	132.9327	131.3701	4.9912e-01	4.3053e+00
135	IHT000008	130.6152	133.1543	131.4707	5.2481e-01	4.3056e+00
136	IHT000009	131.3064	133.6501	132.1969	4.7705e-01	4.3079e+00
137	IHT000010	129.7401	132.8651	131.3182	6.0598e-01	4.3052e+00
138	IHT000011	133.7703	137.0906	135.4305	6.3288e-01	4.3179e+00
139	IHT000012	127.6668	130.7917	129.2215	6.6023e-01	4.2988e+00
140	IHT000013	91.4964	93.8401	92.8128	5.5357e-01	4.2037e+00
141	IHT000014	127.8283	130.1720	129.0548	5.6640e-01	4.2983e+00
142	IHT000015	95.7219	97.4797	96.7492	4.8297e-01	4.2126e+00
143	IHT000016	87.0906	89.0437	88.1140	4.9373e-01	4.1936e+00
144	IHT000017	107.0313	109.1797	108.1328	5.5068e-01	4.2402e+00
145	IHT000018	108.2219	110.5657	109.2922	5.7756e-01	4.2432e+00
146	IHT000019	104.3532	106.8923	105.2399	5.5272e-01	4.2329e+00
147	IHT000020	106.9862	109.7206	107.8885	5.7574e-01	4.2396e+00
148	IHT000021	-2.3700	0.5597	-1.2450	7.0868e-01	4.1000e+00
149	IHT000022	90.8241	93.1678	91.8201	5.3123e-01	4.2016e+00
150	IHT000023	106.1899	108.3383	106.9829	5.4449e-01	4.2373e+00
151	IHT000024	70.8834	73.2271	71.8716	5.1510e-01	4.1625e+00
152	IHT000025	103.7748	105.7279	104.7358	5.2916e-01	4.2317e+00
153	IHT000026	105.4575	107.4106	106.3520	4.7693e-01	4.2357e+00
154	IHT000027	88.4878	90.6363	89.3433	4.9739e-01	4.1962e+00
155	IHT000028	90.0466	92.3903	91.3396	5.4375e-01	4.2005e+00

Test: May03_19

sum1

Date: Thu May 3 14:25:48 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8443	107.6021	106.8638	5.1037e-01	4.2370e+00
157	IHT000030	107.4745	109.8182	108.6932	5.4471e-01	4.2416e+00
158	IHT000031	106.1749	108.3233	107.4952	5.3896e-01	4.2386e+00
159	IHT000032	108.0191	110.1675	108.9214	5.1734e-01	4.2422e+00
160	IHT000033	107.8050	109.9534	108.8402	5.2830e-01	4.2420e+00
161	IHT000034	94.5801	96.1426	95.1973	4.1827e-01	4.2091e+00
162	IHT000035	124.5943	126.3522	125.3638	4.7418e-01	4.2874e+00
163	IHT000036	93.0025	94.7604	93.7681	4.3734e-01	4.2059e+00

Velocity 1 = 3.2559 (ft/sec) (+/- 16.1618 %)
Velocity 2 = 3.3019 (ft/sec) (+/- 5.8658 %)
Pressure drop = -4.8341 (psi)
Tsat in = 267.8444 (deg F) Tsat out = 274.3378 (deg F)
Phi inner = 102.1996 (kBtu/hr-ft2) (+/- 1.4088 %)
Phi outer = 100.9963 (kBtu/hr-ft2) (+/- 1.6195 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.9663	76.6038	76.4211	1.6631e-01	1.9000e+00
1	TRF000002	76.6055	77.0280	76.7407	1.1890e-01	1.9000e+00
2	TFM000001	86.9864	87.7205	87.3452	1.8349e-01	1.9002e+00
3	TIN000001	86.6763	87.5174	87.2673	1.8495e-01	1.9002e+00
4	TRV000001	87.5549	88.3911	87.9247	1.8921e-01	1.9002e+00
5	TSR000001	137.0305	138.8375	137.8718	4.2334e-01	1.9031e+00
6	TAO020136	199.4965	200.5590	199.9736	2.1507e-01	1.9113e+00
7	TAO050136	212.8119	214.6183	213.7567	3.7903e-01	1.9139e+00
8	TAO070136	208.6749	210.5021	209.6733	3.8559e-01	1.9131e+00
9	TAO080136	246.6251	247.5566	247.1782	2.1739e-01	1.9210e+00
10	TAO090136	257.2816	258.4886	257.9484	2.5350e-01	1.9237e+00
11	TAO100136	257.4517	259.6791	258.6936	4.1919e-01	1.9238e+00
12	TAO105136	263.4198	265.2745	264.5568	3.9732e-01	1.9253e+00
13	TAO110136	272.0472	274.1461	273.4573	4.1241e-01	1.9277e+00
14	TAO115136	271.3284	272.9012	272.0295	3.5903e-01	1.9273e+00
15	TAO120136	281.5804	282.5824	282.0735	2.0755e-01	1.9301e+00
16	TAO125136	277.1041	279.0292	277.9095	3.6700e-01	1.9289e+00
17	TAO130136	273.2773	274.4607	273.7608	2.6220e-01	1.9278e+00
18	TAO120048	282.9492	283.8656	283.4425	1.8684e-01	1.9304e+00
19	TAO130048	282.1446	280.8779	280.5685	1.3335e-01	1.9296e+00
20	TAO120224	282.9902	283.9068	283.4213	2.4635e-01	1.9304e+00
21	TAO130224	271.3612	272.6418	272.0546	3.0662e-01	1.9273e+00
22	TAO120312	262.1101	262.9454	262.4797	1.9620e-01	1.9248e+00
23	TAO130312	280.3778	281.3840	280.8665	1.9109e-01	1.9297e+00
24	TRT020000	197.9418	199.7820	198.6958	3.8351e-01	1.9111e+00
25	TRT070000	246.1226	247.3472	246.9340	2.7953e-01	1.9210e+00
26	TRT100000	272.3503	273.3624	272.7535	2.7680e-01	1.9275e+00
27	TRT120000	279.6814	280.4160	280.0399	1.5648e-01	1.9295e+00
28	TRT125000	288.3102	289.0377	288.7119	1.7924e-01	1.9320e+00
29	TRT130000	282.7356	283.3755	283.0890	1.4680e-01	1.9303e+00
30	EMPTY	39.1464	40.0646	39.6653	2.2148e-01	1.9011e+00
31	TAF050136	142.3042	145.7064	143.9321	7.3951e-01	1.9037e+00
32	TAF070136	166.0301	169.5631	167.4885	7.2671e-01	1.9064e+00
33	TAF080136	241.3856	244.1776	242.4709	5.5749e-01	1.9199e+00
34	TAF090136	178.4462	181.4740	179.8906	6.6207e-01	1.9081e+00
35	TAF100136	201.2332	205.7641	202.9676	1.1822e+00	1.9119e+00
36	TAF105136	206.1498	209.3851	207.2872	7.4027e-01	1.9127e+00
37	TAF110136	234.6705	238.4241	236.6141	7.2425e-01	1.9186e+00
38	TAF115136	219.0270	221.7818	220.1390	6.5338e-01	1.9151e+00
39	TAF120136	261.9535	263.4314	262.6280	3.5086e-01	1.9248e+00
40	TAF125136	232.0005	234.9075	233.4847	6.4012e-01	1.9179e+00
41	TAF130136	236.6255	238.9742	237.8115	6.0772e-01	1.9189e+00
42	TAF120048	232.3850	235.2349	233.5121	5.9259e-01	1.9179e+00
43	TAF130048	244.7235	246.5940	245.4888	3.8206e-01	1.9206e+00
44	TAF120224	230.0842	233.2964	231.2660	5.7822e-01	1.9174e+00
45	TAF130224	238.1283	240.3962	239.2796	4.4893e-01	1.9192e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0986	2.0334e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9362	1.2404e-01	1.9011e+00
48	TAI130138	276.3752	277.7552	277.1797	3.2072e-01	1.9287e+00
49	TAI130226	275.8593	276.9586	276.5457	2.5615e-01	1.9285e+00
50	TAI130314	280.0060	281.1096	280.5486	2.8256e-01	1.9296e+00
51	TAI130042	278.2826	279.5692	278.7993	2.7538e-01	1.9291e+00
52	TRR130090	145.4758	147.7761	147.0342	4.4667e-01	1.9040e+00
53	TSI000001	48.4617	49.3279	48.9709	1.8715e-01	1.9003e+00
54	TSI000002	138.6542	140.3636	139.5574	3.9044e-01	1.9033e+00
55	TSO000001	46.3758	47.0291	46.7829	1.8635e-01	1.9004e+00
56	TSO000002	66.6896	67.6496	67.1445	2.2368e-01	1.9000e+00
57	TAF020136	106.5160	108.1770	107.3566	4.5414e-01	1.9009e+00
58	TAF120312	232.9147	235.3642	234.2356	5.2592e-01	1.9181e+00
59	TAF130312	255.4587	257.6848	256.6067	5.8308e-01	1.9233e+00
60	EMPTY	4.6143	4.6387	4.6271	7.3663e-03	0.0000e+00
61	EMPTY	4.6045	4.6240	4.6118	4.8578e-03	0.0000e+00
62	EMPTY	4.5947	4.6045	4.5987	3.7809e-03	0.0000e+00
63	EMPTY	4.5850	4.5947	4.5914	2.8659e-03	0.0000e+00
64	EMPTY	2.1387	2.1436	2.1433	1.1714e-03	0.0000e+00
65	EMPTY	2.1533	2.1533	2.1533	0.0000e+00	0.0000e+00
66	EMPTY	2.1582	2.1631	2.1589	1.7115e-03	0.0000e+00
67	EMPTY	2.1631	2.1680	2.1678	9.6655e-04	0.0000e+00
68	EMPTY	2.1680	2.1777	2.1729	9.8648e-04	0.0000e+00
69	EMPTY	2.1777	2.1826	2.1812	2.2603e-03	0.0000e+00
70	EMPTY	2.1826	2.1924	2.1875	9.8648e-04	0.0000e+00
71	EMPTY	2.1973	2.2021	2.2010	2.1065e-03	0.0000e+00
72	EMPTY	2.2021	2.2070	2.2049	2.4484e-03	0.0000e+00
73	EMPTY	2.2119	2.2168	2.2138	2.3941e-03	0.0000e+00
74	EMPTY	2.2168	2.2217	2.2210	1.7115e-03	0.0000e+00
75	EMPTY	2.2266	2.2314	2.2272	1.7115e-03	0.0000e+00
76	EMPTY	2.2314	2.2363	2.2322	1.8082e-03	0.0000e+00
77	EMPTY	2.2412	2.2461	2.2437	2.4662e-03	0.0000e+00
78	EMPTY	2.2559	2.2656	2.2566	2.0598e-03	0.0000e+00
79	EMPTY	2.2705	2.2754	2.2720	2.2603e-03	0.0000e+00
80	PAN020136	-17.0369	-14.8244	-15.9734	4.7418e-01	8.7092e-01
81	PAN050136	-34.9847	-32.3907	-32.9370	5.3314e-01	1.6820e+00
82	PAN070136	-25.2926	-19.0364	-23.0419	2.0671e+00	8.7190e-01
83	PAN080136	-13.9324	-4.8534	-11.5199	2.0224e+00	8.7048e-01
84	PAN090136	-12.1100	-2.0392	-9.6106	1.9931e+00	8.7033e-01
85	PAN100136	-13.2559	-3.6429	-9.9814	1.5117e+00	8.7036e-01
86	PAN105136	-6.6000	-3.0905	-4.7293	9.3380e-01	8.7008e-01
87	PAN110136	-6.0939	-3.0422	-4.8046	7.6655e-01	8.7008e-01
88	PAN115136	-6.3198	-0.7503	-4.4155	1.0946e+00	8.7007e-01
89	PAN120136	-6.5061	-2.7677	-4.8841	7.9419e-01	8.7009e-01
90	PAN125136	-4.5283	-2.6210	-3.7806	4.3048e-01	8.7005e-01
91	PAN130136	-6.6060	-5.4616	-5.8049	2.5572e-01	8.7012e-01
92	PAN120048	-10.4947	-0.1187	-9.3091	1.9361e+00	8.7031e-01
93	PAN130048	-10.5547	-9.7155	-10.1077	1.8173e-01	8.7037e-01
94	PAN120224	-10.0310	-8.1999	-9.1567	3.9575e-01	8.7030e-01
95	PAN130224	-10.9260	-9.9342	-10.2272	2.0643e-01	8.7038e-01
96	PAN120312	-10.6106	-7.5589	-8.9886	7.4670e-01	8.7029e-01
97	PAN130312	-10.1263	-8.3716	-9.5114	3.3608e-01	8.7032e-01
98	PAB000136	40.1766	40.4512	40.3203	5.9225e-02	5.8869e-01
99	PAB100136	43.7366	44.1028	44.0286	6.4000e-02	5.9035e-01
100	PAB125136	44.8739	45.0112	44.9197	4.1359e-02	5.9077e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.4266	40.1848	1.0314e-01	7.5670e-01
102	PRV000001	19.7263	19.8484	19.8093	5.7521e-02	7.5163e-01
103	PSR000001	45.2813	45.2813	45.2813	2.3121e-05	7.5850e-01
104	PFM000001	1.4032	1.6779	1.5552	7.7619e-02	5.0002e-01
105	PAN000136	-136.8183	-132.2406	-133.8336	8.6381e-01	4.9314e+00
106	PFM000002	1.5705	1.6544	1.6007	1.6950e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0030	2.9413e-03	0.0000e+00
108	EMPTY	-9.9023	-9.4824	-9.7349	1.0831e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0026	2.4583e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.5972	100.9878	100.7847	1.0410e-01	1.0108e+00
113	VPW000002	119.9557	120.5416	120.1744	9.3710e-02	1.0844e+00
114	VPW000003	147.8440	148.4300	148.1761	1.3235e-01	1.2027e+00
115	VPW000004	105.5288	105.9195	105.7241	1.3087e-01	1.0288e+00
116	VPW000005	140.3358	140.9217	140.5507	1.1334e-01	1.1693e+00
117	VPW000006	147.2318	147.6225	147.4311	1.1497e-01	1.1994e+00
118	IPW000001	530.2114	536.0684	533.7255	1.8916e+00	9.1317e+00
119	IPW000002	1305.1743	1318.8333	1310.8718	4.1316e+00	1.3147e+01
120	IPW000003	1332.2249	1338.0748	1335.3448	1.8053e+00	1.3300e+01
121	IPW000004	380.4932	382.4463	381.4015	4.4128e-01	3.6164e+00
122	IPW000005	253.4396	254.9043	254.2012	2.9853e-01	2.8342e+00
123	IPW000006	267.0616	268.5265	267.7061	3.7486e-01	2.9108e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	3.4751e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0125	3.1444e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0144	3.4751e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0166	3.1195e-03	0.0000e+00
128	IHT000001	131.5016	134.4313	132.7438	6.3474e-01	4.3095e+00
129	IHT000002	132.0162	134.5553	133.2115	6.0443e-01	4.3110e+00
130	IHT000003	131.6106	133.9543	132.6300	5.5704e-01	4.3092e+00
131	IHT000004	132.0838	134.0370	133.0839	5.2295e-01	4.3106e+00
132	IHT000005	129.6424	131.5955	130.5995	4.7719e-01	4.3030e+00
133	IHT000006	125.7024	127.6555	126.6359	4.5385e-01	4.2911e+00
134	IHT000007	130.5889	132.3468	131.3897	4.3807e-01	4.3054e+00
135	IHT000008	130.6152	132.5683	131.5019	4.2354e-01	4.3057e+00
136	IHT000009	131.3064	133.2595	132.2164	4.3514e-01	4.3079e+00
137	IHT000010	129.9354	132.4745	131.4237	5.7438e-01	4.3055e+00
138	IHT000011	134.3562	136.8953	135.6922	5.5011e-01	4.3187e+00
139	IHT000012	128.0574	130.7917	129.5106	5.6243e-01	4.2997e+00
140	IHT000013	91.6917	94.2308	92.9808	5.5383e-01	4.2041e+00
141	IHT000014	128.0236	130.3674	129.1642	5.9104e-01	4.2986e+00
142	IHT000015	95.5266	98.0657	96.8313	5.5164e-01	4.2128e+00
143	IHT000016	86.8953	89.2390	88.2078	5.2651e-01	4.1938e+00
144	IHT000017	106.6406	108.9844	107.8203	5.5658e-01	4.2394e+00
145	IHT000018	107.8313	110.3703	109.1633	5.8353e-01	4.2428e+00
146	IHT000019	104.1579	106.1110	105.0641	4.4074e-01	4.2325e+00
147	IHT000020	106.9862	108.7440	107.7831	4.2834e-01	4.2393e+00
148	IHT000021	-2.1747	-0.2216	-1.3583	4.5453e-01	4.1000e+00
149	IHT000022	91.0194	92.5819	91.7967	3.5620e-01	4.2015e+00
150	IHT000023	106.1899	107.9477	106.9243	3.6712e-01	4.2371e+00
151	IHT000024	71.0787	72.8365	71.8170	3.7286e-01	4.1624e+00
152	IHT000025	103.9701	105.9232	104.6967	3.8265e-01	4.2316e+00
153	IHT000026	105.4575	107.4106	106.3052	4.1123e-01	4.2356e+00
154	IHT000027	88.4878	90.2457	89.3628	3.8102e-01	4.1963e+00
155	IHT000028	90.2419	92.7809	91.4528	4.9756e-01	4.2008e+00

Test: May03_19

sum2

Date: Thu May 3 14:25:48 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6490	107.9928	106.9146	5.3268e-01	4.2371e+00
157	IHT000030	107.6698	110.0135	108.8456	5.7384e-01	4.2420e+00
158	IHT000031	106.7608	108.7139	107.6162	5.3509e-01	4.2389e+00
159	IHT000032	108.0191	110.3628	108.9995	5.6011e-01	4.2424e+00
160	IHT000033	108.0003	110.3440	108.9534	5.6171e-01	4.2423e+00
161	IHT000034	94.5801	96.5332	95.3731	5.0287e-01	4.2095e+00
162	IHT000035	124.7897	126.9381	125.4888	5.1613e-01	4.2877e+00
163	IHT000036	93.1979	95.3463	93.8540	4.6981e-01	4.2060e+00

Test: May03_19 dif Date: Thu May 3 14:25:48 1990 Page: 1

Velocity 1 = 0.184800 (ft/sec)

Velocity 2 = 0.198400 (ft/sec)

Pressure Drop = 0.038700 (psi)

Tsat in = 0.220398 (deg F) Tsat out = 0.172791 (deg F)

Phi inner = 1.594803 (kBtu/hr-ft2) Phi outer = 0.448898 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1997	0.2620
1	TRF000002	0.1859	0.2428
2	TFM000001	0.2066	0.2360
3	TIN000001	0.4308	0.4912
4	TRV000001	0.9596	1.1034
5	TSR000001	6.5128	4.9580
6	TAO020136	3.7168	1.8938
7	TAO050136	3.4964	1.6629
8	TAO070136	3.5956	1.7448
9	TAO080136	5.8624	2.4294
10	TAO090136	6.1249	2.4322
11	TAO100136	5.6715	2.2415
12	TAO105136	6.0693	2.3480
13	TAO110136	6.5886	2.4689
14	TAO115136	6.1779	2.3238
15	TAO120136	4.9461	1.7848
16	TAO125136	5.6529	2.0763
17	TAO130136	5.6566	2.1099
18	TAO120048	3.7983	1.3583
19	TAO130048	5.5007	1.9998
20	TAO120224	4.9455	1.7759
21	TAO130224	6.0887	2.2893
22	TAO120312	4.4161	1.7112
23	TAO130312	5.5138	2.0024
24	TRT020000	4.0754	2.0940
25	TRT070000	6.2344	2.5901
26	TRT100000	5.3437	1.9983
27	TRT120000	4.9213	1.7888
28	TRT125000	2.2209	0.7752
29	TRT130000	4.0653	1.4570
30	EMPTY	0.0642	0.1621
31	TAF050136	2.7034	1.9142
32	TAF070136	3.5650	2.1748
33	TAF080136	2.2200	0.9240
34	TAF090136	4.2191	2.4017
35	TAF100136	6.6633	3.3944
36	TAF105136	6.0318	2.9971
37	TAF110136	8.7460	3.8382
38	TAF115136	6.6027	3.0921
39	TAF120136	4.8523	1.8824
40	TAF125136	8.0889	3.5888
41	TAF130136	6.8870	2.9824
42	TAF120048	6.7108	2.9589
43	TAF130048	7.4986	3.1508
44	TAF120224	6.7149	2.9904
45	TAF130224	7.1061	3.0607

#	Name	Abs Diff	%Diff
46	EMPTY	0.0644	0.1693
47	EMPTY	0.0735	0.1844
48	TAI130138	2.2254	0.8094
49	TAI130226	3.1343	1.1464
50	TAI130314	3.4528	1.2461
51	TAI130042	3.8180	1.3885
52	TRR130090	2.5409	1.6988
53	TSI000001	0.1541	0.3157
54	TSI000002	0.4811	0.3459
55	TSO000001	0.1366	0.2928
56	TSO000002	0.5779	0.8682
57	TAF020136	0.6949	0.6515
58	TAF120312	7.1368	3.1426
59	TAF130312	10.4423	4.2420
60	EMPTY	0.2649	6.0726
61	EMPTY	0.2616	6.0135
62	EMPTY	0.2611	6.0195
63	EMPTY	0.2592	5.9831
64	EMPTY	0.1159	5.7167
65	EMPTY	0.1137	5.5746
66	EMPTY	0.1134	5.5439
67	EMPTY	0.1134	5.5199
68	EMPTY	0.1136	5.5164
69	EMPTY	0.1125	5.4382
70	EMPTY	0.1134	5.4674
71	EMPTY	0.1121	5.3665
72	EMPTY	0.1111	5.3061
73	EMPTY	0.1095	5.2036
74	EMPTY	0.1096	5.1909
75	EMPTY	0.1083	5.1111
76	EMPTY	0.1070	5.0348
77	EMPTY	0.1078	5.0471
78	EMPTY	0.1064	4.9484
79	EMPTY	0.1063	4.9083
80	PAN020136	0.3494	2.2363
81	PAN050136	0.5310	1.6386
82	PAN070136	1.0147	4.6066
83	PAN080136	1.0514	8.3635
84	PAN090136	1.0712	10.0283
85	PAN100136	1.1414	12.9118
86	PAN105136	0.3144	7.1213
87	PAN110136	0.4517	10.3770
88	PAN115136	0.1572	3.4378
89	PAN120136	0.2624	5.6776
90	PAN125136	0.8683	18.6775
91	PAN130136	0.3967	7.3352
92	PAN120048	0.5783	5.8489
93	PAN130048	0.0748	0.7456
94	PAN120224	0.0885	0.9759
95	PAN130224	0.2884	2.9018
96	PAN120312	0.1114	1.2242
97	PAN130312	0.1709	1.7651
98	PAB000136	0.1493	0.3689
99	PAB100136	0.0943	0.2137
100	PAB125136	0.1282	0.2846

Test: May03_19

dif

Date: Thu May 3 14:25:48 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1734	0.4297
102	PRV000001	0.2124	1.0838
103	PSR000001	0.0952	0.2098
104	PFM000001	0.1868	10.7233
105	PAN000136	1.0711	0.8068
106	PFM000002	0.2037	11.2891
107	EMPTY	0.0005	14.2857
108	EMPTY	0.0253	0.2606
109	EMPTY	0.0014	116.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.0742	0.0737
113	VPW000002	0.0430	0.0358
114	VPW000003	0.1679	0.1134
115	VPW000004	0.0508	0.0481
116	VPW000005	0.0235	0.0167
117	VPW000006	0.1875	0.1273
118	IPW000001	19.6405	3.5493
119	IPW000002	30.5566	2.3866
120	IPW000003	21.4105	1.6295
121	IPW000004	4.7949	1.2416
122	IPW000005	0.2148	0.0844
123	IPW000006	1.7676	0.6647
124	EMPTY	0.0014	6.7961
125	EMPTY	0.0007	5.3030
126	EMPTY	0.0017	10.5590
127	EMPTY	0.0005	2.9240
128	IHT000001	0.1172	0.0882
129	IHT000002	0.0429	0.0322
130	IHT000003	0.0508	0.0383
131	IHT000004	0.0390	0.0293
132	IHT000005	0.0547	0.0419
133	IHT000006	0.0312	0.0246
134	IHT000007	0.0196	0.0149
135	IHT000008	0.0312	0.0237
136	IHT000009	0.0195	0.0148
137	IHT000010	0.1055	0.0803
138	IHT000011	0.2617	0.1932
139	IHT000012	0.2891	0.2237
140	IHT000013	0.1680	0.1810
141	IHT000014	0.1094	0.0848
142	IHT000015	0.0821	0.0849
143	IHT000016	0.0938	0.1065
144	IHT000017	0.3125	0.2890
145	IHT000018	0.1289	0.1179
146	IHT000019	0.1758	0.1670
147	IHT000020	0.1054	0.0977
148	IHT000021	0.1133	9.1004
149	IHT000022	0.0234	0.0255
150	IHT000023	0.0586	0.0548
151	IHT000024	0.0546	0.0760
152	IHT000025	0.0391	0.0373
153	IHT000026	0.0468	0.0440
154	IHT000027	0.0195	0.0218
155	IHT000028	0.1132	0.1239

Test: May03_19 dif Date: Thu May 3 14:25:48 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0508	0.0475
157	IHT000030	0.1524	0.1402
158	IHT000031	0.1210	0.1126
159	IHT000032	0.0781	0.0717
160	IHT000033	0.1132	0.1040
161	IHT000034	0.1758	0.1847
162	IHT000035	0.1250	0.0997
163	IHT000036	0.0859	0.0916

Test: May03_20

sum1

Date: Thu May 3 14:39:00 1990

Page: 1

Velocity 1 = 3.2166 (ft/sec) (+/- 16.5672 %)
Velocity 2 = 3.3292 (ft/sec) (+/- 5.7758 %)
Pressure drop = -4.8628 (psi)
Tsat in = 268.0729 (deg F) Tsat out = 274.5673 (deg F)
Phi inner = 101.0978 (kBtu/hr-ft2) (+/- 1.4119 %)
Phi outer = 101.0171 (kBtu/hr-ft2) (+/- 1.6181 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.3914	77.0286	76.6887	1.6058e-01	1.9000e+00
1	TRF000002	76.8167	77.2392	76.9942	1.0762e-01	1.9000e+00
2	TFM000001	87.1964	88.0357	87.6412	1.9916e-01	1.9002e+00
3	TIN000001	87.2019	87.9375	87.6265	1.8252e-01	1.9002e+00
4	TRV000001	87.2431	88.0783	87.6819	1.9012e-01	1.9002e+00
5	TSR000001	135.4245	137.7364	136.5583	5.8887e-01	1.9030e+00
6	TAO020136	200.0756	201.3318	200.7984	2.5309e-01	1.9115e+00
7	TAO050136	214.0479	215.3791	214.6835	3.5686e-01	1.9141e+00
8	TAO070136	210.4054	212.0389	210.9821	3.5044e-01	1.9133e+00
9	TAO080136	247.8358	248.5809	248.2783	1.7800e-01	1.9213e+00
10	TAO090136	258.3954	259.6949	259.2417	2.1251e-01	1.9240e+00
11	TAO100136	258.9376	260.8846	260.0093	3.8756e-01	1.9242e+00
12	TAO105136	265.2744	266.2935	265.8081	2.7736e-01	1.9257e+00
13	TAO110136	274.3279	275.6060	274.9929	2.9369e-01	1.9281e+00
14	TAO115136	272.3453	273.8247	273.2110	3.1405e-01	1.9276e+00
15	TAO120136	282.5824	283.5802	283.0332	2.0040e-01	1.9303e+00
16	TAO125136	277.6550	279.3057	278.5795	3.6341e-01	1.9291e+00
17	TAO130136	274.2795	275.3698	274.7669	2.0517e-01	1.9280e+00
18	TAO120048	283.7737	284.5067	284.1218	1.8028e-01	1.9306e+00
19	TAO130048	281.1512	281.8842	281.4154	1.5537e-01	1.9299e+00
20	TAO120224	283.8151	285.0969	284.2546	2.3247e-01	1.9307e+00
21	TAO130224	272.8268	273.9225	273.3593	2.3688e-01	1.9277e+00
22	TAO120312	265.8183	266.6517	266.1812	1.6611e-01	1.9258e+00
23	TAO130312	281.3840	282.3002	281.7873	1.7341e-01	1.9300e+00
24	TRT020000	198.8133	200.3622	199.6344	3.6016e-01	1.9113e+00
25	TRT070000	247.4395	248.3815	247.9781	2.5799e-01	1.9212e+00
26	TRT100000	273.8222	274.9233	274.4830	2.0997e-01	1.9280e+00
27	TRT120000	280.5992	281.1493	280.9035	1.4519e-01	1.9297e+00
28	TRT125000	288.9475	289.4920	289.1944	1.3610e-01	1.9321e+00
29	TRT130000	283.3763	284.1078	283.7160	1.4776e-01	1.9305e+00
30	EMPTY	39.1464	40.0646	39.6332	2.3020e-01	1.9011e+00
31	TAF050136	143.3065	146.8068	144.7275	7.9471e-01	1.9038e+00
32	TAF070136	167.6014	170.7400	168.6263	6.3354e-01	1.9065e+00
33	TAF080136	242.3183	245.1087	243.7736	6.5643e-01	1.9202e+00
34	TAF090136	180.0102	183.0338	181.2204	7.4316e-01	1.9083e+00
35	TAF100136	202.1976	206.5338	204.5116	1.2057e+00	1.9122e+00
36	TAF105136	207.8652	213.1860	209.8131	1.3150e+00	1.9131e+00
37	TAF110136	237.2062	240.1113	238.5339	7.2196e-01	1.9190e+00
38	TAF115136	220.5485	223.1110	221.6685	7.0718e-01	1.9154e+00
39	TAF120136	262.7863	264.4476	263.6021	3.7131e-01	1.9251e+00
40	TAF125136	233.5038	235.6577	234.5001	5.9114e-01	1.9181e+00
41	TAF130136	237.9422	240.1003	239.0569	4.7277e-01	1.9192e+00
42	TAF120048	233.8096	235.9931	235.2074	5.2070e-01	1.9183e+00
43	TAF130048	246.2209	247.8100	246.9982	3.6537e-01	1.9210e+00
44	TAF120224	231.4078	234.0521	232.6547	6.1869e-01	1.9177e+00
45	TAF130224	240.0177	242.0961	240.8307	4.3440e-01	1.9196e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.8139e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9040	1.0622e-01	1.9011e+00
48	TAI130138	277.1118	278.3075	277.7186	3.0638e-01	1.9288e+00
49	TAI130226	276.4085	277.7841	277.1861	2.5745e-01	1.9287e+00
50	TAI130314	280.6493	281.5692	281.0984	2.4339e-01	1.9298e+00
51	TAI130042	279.0180	280.2124	279.6061	2.5177e-01	1.9294e+00
52	TRR130090	143.9762	149.1730	146.7727	1.2789e+00	1.9040e+00
53	TSI000001	48.7872	49.5446	49.1511	1.5720e-01	1.9003e+00
54	TSI000002	143.3733	145.4761	144.3743	5.2239e-01	1.9037e+00
55	TSO000001	46.5924	47.3548	46.9324	1.9878e-01	1.9004e+00
56	TSO000002	66.7976	67.8636	67.3943	2.1528e-01	1.9000e+00
57	TAF020136	106.5142	109.0048	107.7893	5.0450e-01	1.9010e+00
58	TAF120312	234.4225	236.7756	235.3830	4.7202e-01	1.9183e+00
59	TAF130312	257.5001	260.0007	258.8044	5.8549e-01	1.9239e+00
60	EMPTY	4.6631	4.6924	4.6803	6.9922e-03	0.0000e+00
61	EMPTY	4.6533	4.6680	4.6646	4.4599e-03	0.0000e+00
62	EMPTY	4.6436	4.6582	4.6506	3.5786e-03	0.0000e+00
63	EMPTY	4.6338	4.6533	4.6436	3.8206e-03	0.0000e+00
64	EMPTY	2.1631	2.1680	2.1655	2.4662e-03	0.0000e+00
65	EMPTY	2.1729	2.1826	2.1761	2.5362e-03	0.0000e+00
66	EMPTY	2.1777	2.1875	2.1821	2.6562e-03	0.0000e+00
67	EMPTY	2.1875	2.1924	2.1906	2.3675e-03	0.0000e+00
68	EMPTY	2.1924	2.1973	2.1947	2.4642e-03	0.0000e+00
69	EMPTY	2.1973	2.2070	2.2025	2.3839e-03	0.0000e+00
70	EMPTY	2.2070	2.2119	2.2097	2.4583e-03	0.0000e+00
71	EMPTY	2.2217	2.2266	2.2235	2.3941e-03	0.0000e+00
72	EMPTY	2.2217	2.2314	2.2271	2.2603e-03	0.0000e+00
73	EMPTY	2.2314	2.2412	2.2367	1.6624e-03	0.0000e+00
74	EMPTY	2.2412	2.2461	2.2430	2.3675e-03	0.0000e+00
75	EMPTY	2.2510	2.2510	2.2510	0.0000e+00	0.0000e+00
76	EMPTY	2.2510	2.2607	2.2558	1.2041e-03	0.0000e+00
77	EMPTY	2.2656	2.2754	2.2661	1.7784e-03	0.0000e+00
78	EMPTY	2.2754	2.2803	2.2800	1.1714e-03	0.0000e+00
79	EMPTY	2.2949	2.2998	2.2950	6.9053e-04	0.0000e+00
80	PAN020136	-18.2577	-14.9007	-16.0436	5.0290e-01	8.7092e-01
81	PAN050136	-34.9847	-32.3907	-32.8485	6.1346e-01	1.6820e+00
82	PAN070136	-25.2163	-20.0283	-23.3287	1.8883e+00	8.7195e-01
83	PAN080136	-13.9324	-3.3275	-10.9218	2.5910e+00	8.7043e-01
84	PAN090136	-12.0337	-7.7613	-10.2332	1.1799e+00	8.7038e-01
85	PAN100136	-12.7218	-4.6347	-9.3573	1.3791e+00	8.7031e-01
86	PAN105136	-6.6000	-2.4038	-4.9276	9.3082e-01	8.7009e-01
87	PAN110136	-6.0176	-2.8133	-4.2796	8.3409e-01	8.7007e-01
88	PAN115136	-5.7094	-3.8021	-4.7405	4.4918e-01	8.7008e-01
89	PAN120136	-6.8876	-3.8359	-5.0779	7.4083e-01	8.7009e-01
90	PAN125136	-4.5283	-1.8580	-3.7074	6.3075e-01	8.7005e-01
91	PAN130136	-6.5297	-5.3090	-5.9453	3.0966e-01	8.7013e-01
92	PAN120048	-10.3421	-7.2904	-9.7104	5.3284e-01	8.7034e-01
93	PAN130048	-10.8599	-9.5629	-10.1656	2.3133e-01	8.7037e-01
94	PAN120224	-10.1073	-7.4370	-9.0544	6.0918e-01	8.7029e-01
95	PAN130224	-10.4683	-8.9424	-9.9327	2.6135e-01	8.7035e-01
96	PAN120312	-10.7632	-7.7878	-9.4220	5.7323e-01	8.7032e-01
97	PAN130312	-10.1263	-8.1427	-9.3359	3.9078e-01	8.7031e-01
98	PAB000136	40.3597	40.5886	40.4751	5.1691e-02	5.8876e-01
99	PAB100136	43.8281	44.2859	44.1486	8.1153e-02	5.9041e-01
100	PAB125136	45.0112	45.1943	45.0900	4.8972e-02	5.9085e-01

Test: May03_20

sum1

Date: Thu May 3 14:39:00 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0604	40.4266	40.2776	8.6458e-02	7.5673e-01
102	PRV0000001	19.7263	19.8484	19.8337	4.0071e-02	7.5164e-01
103	PSR0000001	45.4034	45.5254	45.4107	2.9284e-02	7.5854e-01
104	PFM0000001	1.4032	1.6779	1.5167	6.5552e-02	5.0001e-01
105	PAN000136	-138.1916	-133.1562	-134.6302	8.0247e-01	4.9315e+00
106	PFM0000002	1.6041	1.6544	1.6279	1.2725e-02	2.0004e-01
107	EMPTY	-0.0049	0.0000	-0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-9.9707	-9.3945	-9.7473	1.0833e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0013	2.1635e-03	0.0000e+00
112	VPW0000001	100.0113	101.5738	100.7183	3.9634e-01	1.0106e+00
113	VPW0000002	119.5650	120.7369	120.1900	2.6762e-01	1.0845e+00
114	VPW0000003	147.4534	149.0159	148.1996	3.5882e-01	1.2028e+00
115	VPW0000004	104.5523	106.5054	105.6030	4.4273e-01	1.0284e+00
116	VPW0000005	139.1639	141.5076	140.3905	5.7323e-01	1.1686e+00
117	VPW0000006	146.4506	148.2084	147.4155	4.0512e-01	1.1993e+00
118	IPW0000001	543.8778	557.5443	550.5547	3.0320e+00	9.1939e+00
119	IPW0000002	1291.5154	1307.1256	1299.0084	3.2831e+00	1.3074e+01
120	IPW0000003	1310.7749	1328.3248	1318.9258	3.8938e+00	1.3198e+01
121	IPW0000004	376.5869	384.3994	380.9230	1.9721e+00	3.6133e+00
122	IPW0000005	250.9984	256.8572	253.7911	1.2862e+00	2.8319e+00
123	IPW0000006	264.1320	269.0148	266.6709	9.3064e-01	2.9049e+00
124	EMPTY	-0.0293	-0.0195	-0.0232	3.0501e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0160	2.6174e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.3728e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0176	3.6911e-03	0.0000e+00
128	IHT0000001	131.3063	134.0407	132.5329	5.9848e-01	4.3089e+00
129	IHT0000002	132.0162	134.5553	133.0005	6.3253e-01	4.3103e+00
130	IHT0000003	131.2199	133.7590	132.3918	6.2639e-01	4.3085e+00
131	IHT0000004	131.6932	134.2323	132.8964	6.5716e-01	4.3100e+00
132	IHT0000005	129.2518	131.5955	130.4432	6.0393e-01	4.3025e+00
133	IHT0000006	125.3118	127.6555	126.4718	5.9111e-01	4.2906e+00
134	IHT0000007	130.0030	132.5421	131.2530	6.0618e-01	4.3050e+00
135	IHT0000008	130.2246	132.7637	131.3730	5.9535e-01	4.3053e+00
136	IHT0000009	130.9157	133.4548	132.1344	5.7799e-01	4.3077e+00
137	IHT0000010	129.9354	132.6698	131.1932	6.4375e-01	4.3048e+00
138	IHT0000011	134.1609	137.0906	135.4266	6.5701e-01	4.3179e+00
139	IHT0000012	128.0574	131.1824	129.2762	6.7952e-01	4.2990e+00
140	IHT0000013	91.1058	94.8167	92.7581	6.8027e-01	4.2036e+00
141	IHT0000014	127.4377	130.5627	128.8673	7.9159e-01	4.2978e+00
142	IHT0000015	95.1360	98.2610	96.6281	6.7631e-01	4.2123e+00
143	IHT0000016	86.8953	89.4343	88.0398	5.9583e-01	4.1935e+00
144	IHT0000017	104.8828	108.3984	106.8828	8.2067e-01	4.2370e+00
145	IHT0000018	107.6360	110.3703	109.2336	6.7044e-01	4.2430e+00
146	IHT0000019	103.9626	106.3063	105.1579	5.3181e-01	4.2327e+00
147	IHT0000020	106.4002	108.9393	107.7596	5.1593e-01	4.2392e+00
148	IHT0000021	-2.7606	0.1690	-1.4169	5.9926e-01	4.1000e+00
149	IHT0000022	90.2381	93.3631	91.7616	6.0875e-01	4.2014e+00
150	IHT0000023	105.6040	108.5336	106.9556	5.9692e-01	4.2372e+00
151	IHT0000024	70.6881	73.4225	71.8560	5.8192e-01	4.1625e+00
152	IHT0000025	103.3842	106.1185	104.7280	5.9535e-01	4.2316e+00
153	IHT0000026	105.0668	107.9965	106.3052	6.1080e-01	4.2356e+00
154	IHT0000027	88.0972	91.2222	89.2925	6.6338e-01	4.1961e+00
155	IHT0000028	89.8513	92.1950	91.1325	6.0123e-01	4.2001e+00

Test: May03_20

sum1

Date: Thu May 3 14:39:00 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.7975	106.6099	5.6612e-01	4.2363e+00
157	IHT000030	107.2792	109.4276	108.4159	5.6866e-01	4.2409e+00
158	IHT000031	106.1749	108.3233	107.2569	5.5693e-01	4.2380e+00
159	IHT000032	107.6285	109.9722	108.6636	5.4426e-01	4.2416e+00
160	IHT000033	107.6097	109.9534	108.6097	5.6171e-01	4.2414e+00
161	IHT000034	93.6035	95.7520	94.8652	6.0129e-01	4.2083e+00
162	IHT000035	123.6178	126.5475	125.0435	7.0944e-01	4.2864e+00
163	IHT000036	92.0260	94.9557	93.5533	6.4318e-01	4.2054e+00

Test: May03_20

sum2

Date: Thu May 3 14:39:00 1990

Page: 1

Velocity 1 = 3.2353 (ft/sec) (+/- 16.3717 %)
 Velocity 2 = 3.3059 (ft/sec) (+/- 5.8522 %)
 Pressure drop = -4.8499 (psi)
 Tsat in = 267.8850 (deg F) Tsat out = 274.3860 (deg F)
 Phi inner = 101.8703 (kBtu/hr-ft2) (+/- 1.4097 %)
 Phi outer = 100.9888 (kBtu/hr-ft2) (+/- 1.6190 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.3914	77.0286	76.7737	1.7166e-01	1.9000e+00
1	TRF000002	76.8167	77.4503	77.1336	1.2977e-01	1.9000e+00
2	TFM000001	86.5687	87.5124	87.0782	2.3006e-01	1.9002e+00
3	TIN000001	86.4659	87.3071	87.0064	2.0585e-01	1.9002e+00
4	TRV000001	86.6152	87.5584	87.1792	2.0590e-01	1.9002e+00
5	TSR000001	137.2332	138.7394	138.0786	3.9006e-01	1.9031e+00
6	TAO020136	199.4961	200.8485	200.2670	3.3036e-01	1.9114e+00
7	TAO050136	213.1935	214.7136	214.0477	3.6058e-01	1.9139e+00
8	TAO070136	209.4442	211.5587	210.5454	4.0142e-01	1.9133e+00
9	TAO080136	247.2768	248.3027	247.7643	2.6161e-01	1.9212e+00
10	TAO090136	257.8394	259.0450	258.4316	2.4209e-01	1.9238e+00
11	TAO100136	258.2876	260.0508	259.4142	4.0899e-01	1.9240e+00
12	TAO105136	264.4398	265.9229	265.2612	3.3606e-01	1.9255e+00
13	TAO110136	273.6890	274.9696	274.3835	2.5045e-01	1.9279e+00
14	TAO115136	271.7902	273.5469	272.6650	3.8791e-01	1.9275e+00
15	TAO120136	281.9452	282.8578	282.5090	2.0316e-01	1.9302e+00
16	TAO125136	277.1964	278.8475	278.0461	3.9526e-01	1.9289e+00
17	TAO130136	273.6431	274.8293	274.1686	2.8526e-01	1.9279e+00
18	TAO120048	283.3161	284.2322	283.7542	1.8984e-01	1.9305e+00
19	TAO130048	280.6031	281.4279	281.0159	1.8330e-01	1.9298e+00
20	TAO120224	283.1739	284.9135	283.8795	2.8192e-01	1.9306e+00
21	TAO130224	272.1862	273.3766	272.7375	2.7969e-01	1.9275e+00
22	TAO120312	268.6860	269.6102	269.2536	2.2566e-01	1.9266e+00
23	TAO130312	281.0182	281.8433	281.4383	2.0777e-01	1.9299e+00
24	TRT020000	198.3294	199.9746	199.1520	3.0565e-01	1.9112e+00
25	TRT070000	246.9677	248.0978	247.4407	2.6802e-01	1.9211e+00
26	TRT100000	273.7293	274.6493	274.1400	1.9585e-01	1.9279e+00
27	TRT120000	280.2332	280.9666	280.5538	1.5969e-01	1.9296e+00
28	TRT125000	288.4018	289.3116	288.9286	1.8117e-01	1.9320e+00
29	TRT130000	282.6450	283.6516	283.3421	1.8562e-01	1.9304e+00
30	EMPTY	39.1464	40.0646	39.6561	2.1398e-01	1.9011e+00
31	TAF050136	142.3058	145.4081	144.0376	8.4012e-01	1.9037e+00
32	TAF070136	166.5204	170.6417	167.8635	7.8377e-01	1.9064e+00
33	TAF080136	241.2953	247.8017	242.9241	9.2797e-01	1.9200e+00
34	TAF090136	179.7183	182.2551	180.8948	6.7162e-01	1.9083e+00
35	TAF100136	201.5223	205.4753	203.3185	9.0510e-01	1.9119e+00
36	TAF105136	206.1510	211.4801	208.8539	1.2509e+00	1.9129e+00
37	TAF110136	236.0794	238.9890	237.4862	6.9787e-01	1.9188e+00
38	TAF115136	219.6929	222.3522	220.8959	6.2759e-01	1.9153e+00
39	TAF120136	262.0461	263.8943	262.8363	3.5379e-01	1.9249e+00
40	TAF125136	232.4728	234.8159	233.7647	5.1151e-01	1.9180e+00
41	TAF130136	237.1904	239.2563	238.3158	4.7944e-01	1.9190e+00
42	TAF120048	232.8572	235.4236	234.4716	5.0283e-01	1.9181e+00
43	TAF130048	245.4728	247.2489	246.2450	3.9753e-01	1.9208e+00
44	TAF120224	230.9351	233.9575	231.9918	5.7434e-01	1.9176e+00
45	TAF130224	239.2608	241.1517	240.0759	4.6487e-01	1.9194e+00

Test: May03_20

sum2

Date: Thu May 3 14:39:00 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1262	2.0856e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.8995	1.0408e-01	1.9011e+00
48	TAI130138	276.9273	278.0315	277.3895	2.5650e-01	1.9288e+00
49	TAI130226	276.3176	277.5097	276.9026	2.8849e-01	1.9286e+00
50	TAI130314	279.8210	281.0171	280.3678	2.8452e-01	1.9296e+00
51	TAI130042	278.6504	279.6615	279.2478	2.6140e-01	1.9293e+00
52	TRR130090	143.0739	149.8718	146.8265	1.6734e+00	1.9040e+00
53	TSI000001	48.7872	49.3294	49.0758	1.6295e-01	1.9003e+00
54	TSI000002	140.6649	142.4714	141.7592	4.0852e-01	1.9035e+00
55	TSO000001	46.4841	47.2460	46.9340	1.9170e-01	1.9004e+00
56	TSO000002	66.7971	67.7571	67.3242	2.3431e-01	1.9000e+00
57	TAF020136	106.0990	108.1752	107.1639	4.1887e-01	1.9009e+00
58	TAF120312	233.1974	236.3997	234.9180	7.0343e-01	1.9182e+00
59	TAF130312	257.3142	259.5384	258.2878	4.8899e-01	1.9237e+00
60	EMPTY	4.6533	4.6777	4.6646	6.2585e-03	0.0000e+00
61	EMPTY	4.6436	4.6582	4.6503	3.9323e-03	0.0000e+00
62	EMPTY	4.6289	4.6436	4.6358	3.4300e-03	0.0000e+00
63	EMPTY	4.6191	4.6338	4.6283	2.8996e-03	0.0000e+00
64	EMPTY	2.1582	2.1680	2.1597	2.4662e-03	0.0000e+00
65	EMPTY	2.1680	2.1729	2.1698	2.3941e-03	0.0000e+00
66	EMPTY	2.1729	2.1777	2.1761	2.3365e-03	0.0000e+00
67	EMPTY	2.1826	2.1875	2.1838	2.1065e-03	0.0000e+00
68	EMPTY	2.1875	2.1924	2.1877	9.6655e-04	0.0000e+00
69	EMPTY	2.1924	2.1973	2.1957	2.3008e-03	0.0000e+00
70	EMPTY	2.1973	2.2070	2.2018	1.6624e-03	0.0000e+00
71	EMPTY	2.2119	2.2168	2.2161	1.7115e-03	0.0000e+00
72	EMPTY	2.2168	2.2217	2.2197	2.4164e-03	0.0000e+00
73	EMPTY	2.2266	2.2314	2.2296	2.3941e-03	0.0000e+00
74	EMPTY	2.2314	2.2363	2.2348	2.3008e-03	0.0000e+00
75	EMPTY	2.2412	2.2461	2.2428	2.3008e-03	0.0000e+00
76	EMPTY	2.2461	2.2510	2.2476	2.2603e-03	0.0000e+00
77	EMPTY	2.2559	2.2607	2.2584	2.4642e-03	0.0000e+00
78	EMPTY	2.2705	2.2754	2.2712	1.7115e-03	0.0000e+00
79	EMPTY	2.2803	2.2949	2.2868	2.7213e-03	0.0000e+00
80	PAN020136	-17.3421	-14.8244	-15.9292	5.7389e-01	8.7091e-01
81	PAN050136	-35.4425	-32.2381	-33.1048	7.5350e-01	1.6820e+00
82	PAN070136	-25.2163	-19.5705	-22.4392	1.8209e+00	8.7181e-01
83	PAN080136	-13.9324	-4.8534	-12.1654	2.2003e+00	8.7053e-01
84	PAN090136	-12.0337	-0.6659	-9.4138	2.2289e+00	8.7032e-01
85	PAN100136	-13.2559	-6.2369	-10.0088	1.4810e+00	8.7036e-01
86	PAN105136	-6.5237	-0.1150	-4.8330	1.0677e+00	8.7008e-01
87	PAN110136	-6.0939	-3.0422	-4.7740	7.6918e-01	8.7008e-01
88	PAN115136	-6.0909	-2.7340	-4.5925	7.3337e-01	8.7008e-01
89	PAN120136	-5.9721	-2.4626	-4.7926	7.0588e-01	8.7008e-01
90	PAN125136	-4.9098	-2.8499	-3.9668	5.0367e-01	8.7006e-01
91	PAN130136	-6.3771	-5.3853	-5.8965	2.3287e-01	8.7012e-01
92	PAN120048	-10.7999	-7.6718	-9.6356	7.2752e-01	8.7033e-01
93	PAN130048	-10.4784	-8.9526	-9.8589	3.5839e-01	8.7035e-01
94	PAN120224	-9.9547	-7.7422	-9.0621	4.8943e-01	8.7029e-01
95	PAN130224	-10.3920	-8.5609	-9.8457	3.0841e-01	8.7035e-01
96	PAN120312	-10.7632	-4.6597	-9.3579	1.2126e+00	8.7031e-01
97	PAN130312	-10.0500	-7.7612	-9.2642	5.0567e-01	8.7031e-01
98	PAB000136	40.1766	40.4970	40.3478	7.2709e-02	5.8871e-01
99	PAB100136	43.8281	44.1486	44.0314	5.6376e-02	5.9035e-01
100	PAB125136	44.8739	45.0570	44.9554	4.8313e-02	5.9079e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.4266	40.1678	1.5330e-01	7.5669e-01
102	PRV000001	19.7263	19.8484	19.7775	6.0861e-02	7.5163e-01
103	PSR000001	45.1592	45.4034	45.2935	4.4460e-02	7.5850e-01
104	PFM000001	1.4032	1.6779	1.5351	6.9602e-02	5.0001e-01
105	PAN000136	-136.8183	-132.6984	-134.2731	8.8300e-01	4.9314e+00
106	PFM000002	1.5537	1.6376	1.6047	2.5809e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0042	1.9754e-03	0.0000e+00
108	EMPTY	-9.9121	-9.3359	-9.7468	1.4707e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0005	1.4797e-03	0.0000e+00
112	VPW000001	100.2066	101.3785	100.8120	2.6248e-01	1.0109e+00
113	VPW000002	119.7604	120.5416	120.1744	1.9587e-01	1.0844e+00
114	VPW000003	147.8440	148.6253	148.1840	2.2944e-01	1.2027e+00
115	VPW000004	104.9429	106.1148	105.6968	2.9266e-01	1.0287e+00
116	VPW000005	139.5545	141.1170	140.4843	3.6070e-01	1.1690e+00
117	VPW000006	146.6459	147.6225	147.2866	2.6774e-01	1.1988e+00
118	IPW000001	536.0684	545.8301	541.2617	2.0347e+00	9.1594e+00
119	IPW000002	1297.3693	1314.9307	1304.5502	3.3783e+00	1.3108e+01
120	IPW000003	1322.4749	1338.0748	1330.7041	3.3727e+00	1.3271e+01
121	IPW000004	378.5401	383.9112	381.3332	1.3599e+00	3.6160e+00
122	IPW000005	252.4632	255.3925	254.1914	7.7799e-01	2.8342e+00
123	IPW000006	266.0851	269.0148	267.3741	6.8884e-01	2.9089e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.0501e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	3.5854e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.4400e-03	0.0000e+00
128	IHT000001	131.5016	134.4313	132.6461	6.3259e-01	4.3092e+00
129	IHT000002	132.0162	134.7506	133.1216	6.0825e-01	4.3107e+00
130	IHT000003	131.6106	134.1496	132.5480	6.0102e-01	4.3089e+00
131	IHT000004	131.8885	134.6229	133.0057	5.6364e-01	4.3103e+00
132	IHT000005	129.6424	131.9862	130.5604	5.3851e-01	4.3029e+00
133	IHT000006	125.7024	128.0461	126.6359	5.1794e-01	4.2911e+00
134	IHT000007	130.7843	132.9327	131.4444	5.0976e-01	4.3056e+00
135	IHT000008	130.6152	133.1543	131.5801	5.1510e-01	4.3060e+00
136	IHT000009	131.5017	133.4548	132.2829	4.9912e-01	4.3081e+00
137	IHT000010	130.1307	133.2557	131.3651	5.9900e-01	4.3053e+00
138	IHT000011	134.3562	137.8718	135.5633	6.6344e-01	4.3183e+00
139	IHT000012	127.8621	131.1824	129.3622	6.5011e-01	4.2992e+00
140	IHT000013	91.6917	95.0120	92.9925	6.7498e-01	4.2041e+00
141	IHT000014	127.8283	131.3439	129.1486	7.0428e-01	4.2986e+00
142	IHT000015	95.7219	99.0422	96.8742	6.5465e-01	4.2129e+00
143	IHT000016	87.4812	90.2156	88.3445	5.5676e-01	4.1941e+00
144	IHT000017	105.8594	109.5703	107.5078	8.9038e-01	4.2386e+00
145	IHT000018	108.6125	110.9563	109.2961	5.6669e-01	4.2432e+00
146	IHT000019	104.1579	106.5017	105.2282	5.6805e-01	4.2329e+00
147	IHT000020	106.7909	109.1346	107.9042	5.8427e-01	4.2396e+00
148	IHT000021	-2.5653	0.5597	-1.2177	6.7225e-01	4.1000e+00
149	IHT000022	90.8241	93.3631	91.9061	5.9348e-01	4.2017e+00
150	IHT000023	105.7993	108.1430	107.0415	5.8095e-01	4.2374e+00
151	IHT000024	70.8834	73.0318	71.9185	5.6255e-01	4.1626e+00
152	IHT000025	103.5795	105.9232	104.8413	5.4990e-01	4.2319e+00
153	IHT000026	105.2622	107.4106	106.4419	5.6353e-01	4.2359e+00
154	IHT000027	88.2925	90.4410	89.5113	5.8469e-01	4.1966e+00
155	IHT000028	90.2419	92.3903	91.1013	5.9582e-01	4.2000e+00

Test: May03_20

sum2

Date: Thu May 3 14:39:00 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.9928	106.5162	5.8549e-01	4.2361e+00
157	IHT000030	107.2792	110.0135	108.3299	5.7303e-01	4.2407e+00
158	IHT000031	106.1749	109.1046	107.2217	5.9157e-01	4.2379e+00
159	IHT000032	107.6285	110.5582	108.6441	5.9582e-01	4.2415e+00
160	IHT000033	107.6097	110.5394	108.5902	6.1825e-01	4.2414e+00
161	IHT000034	93.9941	96.3379	95.0449	5.5928e-01	4.2087e+00
162	IHT000035	124.0084	126.5475	125.2271	5.8335e-01	4.2870e+00
163	IHT000036	92.6119	94.9557	93.6119	5.4196e-01	4.2055e+00

Test: May03_20 dif Date: Thu May 3 14:39:00 1990 Page: 1

Velocity 1 = 0.018700 (ft/sec)

Velocity 2 = 0.023300 (ft/sec)

Pressure Drop = 0.012900 (psi)

Tsat in = 0.187897 (deg F) Tsat out = 0.181305 (deg F)

Phi inner = 0.772499 (kBtu/hr-ft2) Phi outer = 0.028297 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0850	0.1108
1	TRF000002	0.1394	0.1810
2	TFM000001	0.5630	0.6424
3	TIN000001	0.6201	0.7077
4	TRV000001	0.5027	0.5733
5	TSR000001	1.5203	1.1133
6	TAO020136	0.5314	0.2646
7	TAO050136	0.6358	0.2962
8	TAO070136	0.4367	0.2070
9	TAO080136	0.5140	0.2070
10	TAO090136	0.8101	0.3125
11	TAO100136	0.5951	0.2289
12	TAO105136	0.5469	0.2058
13	TAO110136	0.6094	0.2216
14	TAO115136	0.5460	0.1998
15	TAO120136	0.5242	0.1852
16	TAO125136	0.5334	0.1915
17	TAO130136	0.5983	0.2177
18	TAO120043	0.3676	0.1294
19	TAO130048	0.3995	0.1420
20	TAO120224	0.3751	0.1320
21	TAO130224	0.4218	0.2275
22	TAO120312	3.0724	1.1542
23	TAO130312	0.3490	0.1239
24	TRT020000	0.4824	0.2416
25	TRT070000	0.5374	0.2167
26	TRT100000	0.3430	0.1250
27	TRT120000	0.3497	0.1245
28	TRT125000	0.2658	0.0919
29	TRT130000	0.3739	0.1318
30	EMPTY	0.0229	0.0578
31	TAF050136	0.6899	0.4767
32	TAF070136	0.7628	0.4524
33	TAF080136	0.8495	0.3485
34	TAF090136	0.3256	0.1797
35	TAF100136	1.1931	0.5834
36	TAF105136	0.9592	0.4572
37	TAF110136	1.0477	0.4392
38	TAF115136	0.7726	0.3485
39	TAF120136	0.7658	0.2905
40	TAF125136	0.7354	0.3136
41	TAF130136	0.7411	0.3100
42	TAF120048	0.7358	0.3128
43	TAF130048	0.7532	0.3049
44	TAF120224	0.6629	0.2849
45	TAF130224	0.7548	0.3134

Test: May03_20

dif

Date: Thu May 3 14:39:00 1990

Page: 2

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0362
47	EMPTY	0.0045	0.0113
48	TAI130138	0.3291	0.1185
49	TAI130226	0.2835	0.1023
50	TAI130314	0.7306	0.2599
51	TAI130042	0.3583	0.1281
52	TRR130090	0.0538	0.0367
53	TSI000001	0.0753	0.1532
54	TSI000002	2.6151	1.8113
55	TSC000001	0.0016	0.0034
56	TSC000002	0.0701	0.1040
57	TAF020136	0.6254	0.5802
58	TAF120312	0.4650	0.1975
59	TAF130312	0.5166	0.1996
60	EMPTY	0.0157	0.3355
61	EMPTY	0.0143	0.3066
62	EMPTY	0.0148	0.3182
63	EMPTY	0.0153	0.3295
64	EMPTY	0.0058	0.2678
65	EMPTY	0.0063	0.2895
66	EMPTY	0.0060	0.2750
67	EMPTY	0.0068	0.3104
68	EMPTY	0.0070	0.3189
69	EMPTY	0.0068	0.3087
70	EMPTY	0.0079	0.3575
71	EMPTY	0.0074	0.3328
72	EMPTY	0.0074	0.3323
73	EMPTY	0.0071	0.3174
74	EMPTY	0.0082	0.3656
75	EMPTY	0.0082	0.3643
76	EMPTY	0.0082	0.3635
77	EMPTY	0.0077	0.3398
78	EMPTY	0.0088	0.3860
79	EMPTY	0.0082	0.3573
80	PAN020136	0.1144	0.7131
81	PAN050136	0.2563	0.7803
82	PAN070136	0.8895	3.8129
83	PAN080136	1.2436	11.3864
84	PAN090136	0.8194	8.0073
85	PAN100136	0.6515	6.9625
86	PAN105136	0.0946	1.9198
87	PAN110136	0.4944	11.5525
88	PAN115136	0.1480	3.1220
89	PAN120136	0.2853	5.6185
90	PAN125136	0.2594	6.9968
91	PAN130136	0.0488	0.8208
92	PAN120048	0.0748	0.7703
93	PAN130048	0.3067	3.0170
94	PAN120224	0.0077	0.0850
95	PAN130224	0.0870	0.8759
96	PAN120312	0.0641	0.6803
97	PAN130312	0.0717	0.7680
98	PAB000136	0.1273	0.3145
99	PAB100136	0.1172	0.2655
100	PAB125136	0.1346	0.2985

Test: May03_20

dif

Date: Thu May 3 14:39:00 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1098	0.2726
102	PRV000001	0.0562	0.2834
103	PSR000001	0.1172	0.2581
104	PFM000001	0.0184	1.2132
105	PAN000136	0.3571	0.2652
106	PFM000002	0.0232	1.4252
107	EMPTY	0.0004	8.6957
108	EMPTY	0.0005	0.0051
109	EMPTY	0.0010	166.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0008	61.5385
112	VPW000001	0.0937	0.0930
113	VPW000002	0.0156	0.0130
114	VPW000003	0.0156	0.0105
115	VPW000004	0.0938	0.0888
116	VPW000005	0.0938	0.0668
117	VPW000006	0.1289	0.0874
118	IPW000001	9.2930	1.6879
119	IPW000002	5.5417	0.4266
120	IPW000003	11.7783	0.8930
121	IPW000004	0.4102	0.1077
122	IPW000005	0.4003	0.1577
123	IPW000006	0.7032	0.2637
124	EMPTY	0.0025	10.7759
125	EMPTY	0.0012	7.5000
126	EMPTY	0.0018	9.6257
127	EMPTY	0.0008	4.5455
128	IHT000001	0.1132	0.0854
129	IHT000002	0.1211	0.0910
130	IHT000003	0.1562	0.1180
131	IHT000004	0.1093	0.0823
132	IHT000005	0.1172	0.0898
133	IHT000006	0.1641	0.1298
134	IHT000007	0.1914	0.1458
135	IHT000008	0.2071	0.1576
136	IHT000009	0.1485	0.1124
137	IHT000010	0.1719	0.1310
138	IHT000011	0.1367	0.1009
139	IHT000012	0.0860	0.0665
140	IHT000013	0.2344	0.2527
141	IHT000014	0.2813	0.2183
142	IHT000015	0.2461	0.2547
143	IHT000016	0.3047	0.3461
144	IHT000017	0.6250	0.5848
145	IHT000018	0.0625	0.0572
146	IHT000019	0.0703	0.0669
147	IHT000020	0.1446	0.1342
148	IHT000021	0.1992	14.0589
149	IHT000022	0.1445	0.1575
150	IHT000023	0.0859	0.0803
151	IHT000024	0.0625	0.0870
152	IHT000025	0.1133	0.1082
153	IHT000026	0.1367	0.1286
154	IHT000027	0.2188	0.2450
155	IHT000028	0.0312	0.0342

Test: May03_20 dif Date: Thu May 3 14:39:00 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0937	0.0879
157	IHT000030	0.0860	0.0793
158	IHT000031	0.0352	0.0328
159	IHT000032	0.0195	0.0179
160	IHT000033	0.0195	0.0180
161	IHT000034	0.1797	0.1894
162	IHT000035	0.1836	0.1468
163	IHT000036	0.0586	0.0626

Test: May03_21

sum1

Date: Thu May 3 15:08:50 1990

Page: 1

Velocity 1 = 3.1260 (ft/sec) (+/- 17.5540 %)
Velocity 2 = 3.2025 (ft/sec) (+/- 6.2142 %)
Pressure drop = -4.8704 (psi)
Tsat in = 267.9026 (deg F) Tsat out = 274.5328 (deg F)
Phi inner = 101.3582 (kBtu/hr-ft2) (+/- 1.4111 %)
Phi outer = 101.2520 (kBtu/hr-ft2) (+/- 1.6178 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0286	77.6656	77.3514	1.8814e-01	1.9000e+00
1	TRF000002	77.4503	77.8725	77.7543	1.2907e-01	1.9000e+00
2	TFM000001	84.9976	85.7329	85.3551	1.9093e-01	1.9002e+00
3	TIN000001	85.2031	85.8350	85.5107	1.6309e-01	1.9002e+00
4	TRV000001	85.2605	86.0993	85.7089	1.8213e-01	1.9002e+00
5	TSR000001	131.8043	133.8215	133.0388	5.2723e-01	1.9027e+00
6	TAO020136	201.0408	202.2957	201.6126	2.7433e-01	1.9116e+00
7	TAO050136	215.4770	217.0918	216.2139	4.1835e-01	1.9143e+00
8	TAO070136	210.4999	212.0373	211.2262	3.6060e-01	1.9134e+00
9	TAO080136	249.6035	250.4410	250.0061	2.2190e-01	1.9217e+00
10	TAO090136	260.0667	261.2712	260.6666	2.7084e-01	1.9243e+00
11	TAO100136	261.4413	262.6446	261.9935	2.8919e-01	1.9247e+00
12	TAO105136	267.0341	269.3475	268.5519	4.0995e-01	1.9264e+00
13	TAO110136	275.9743	277.2501	276.5951	2.6069e-01	1.9285e+00
14	TAO115136	274.4697	275.9473	275.1349	3.5052e-01	1.9281e+00
15	TAO120136	284.3117	285.0417	284.7166	1.9211e-01	1.9308e+00
16	TAO125136	278.2986	279.8570	279.0982	4.0322e-01	1.9292e+00
17	TAO130136	276.1030	277.0117	276.6029	2.0478e-01	1.9285e+00
18	TAO120048	285.0556	285.8791	285.4032	1.6740e-01	1.9310e+00
19	TAO130048	282.2508	283.0738	282.6748	1.8359e-01	1.9302e+00
20	TAO120224	285.3715	286.2864	285.8653	2.0988e-01	1.9311e+00
21	TAO130224	275.2030	276.3013	275.7377	2.4181e-01	1.9283e+00
22	TAO120312	283.8723	284.7891	284.3417	2.1485e-01	1.9307e+00
23	TAO130312	282.9401	283.5809	283.2152	1.6852e-01	1.9304e+00
24	TRT020000	199.0051	200.9407	199.7257	3.6585e-01	1.9113e+00
25	TRT070000	249.1306	250.4472	249.7283	3.0841e-01	1.9216e+00
26	TRT100000	276.5767	277.5863	277.0354	1.8737e-01	1.9287e+00
27	TRT120000	283.4384	284.2624	283.8666	1.8074e-01	1.9306e+00
28	TRT125000	289.6772	290.3140	289.9969	1.6966e-01	1.9323e+00
29	TRT130000	284.2914	285.1140	284.7371	1.5641e-01	1.9308e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2913e-01	1.9011e+00
31	TAF050136	142.6082	146.2100	144.1900	8.2574e-01	1.9037e+00
32	TAF070136	167.6045	171.1365	168.8459	7.8181e-01	1.9066e+00
33	TAF080136	243.3475	269.1924	250.8683	8.7423e+00	1.9219e+00
34	TAF090136	178.3510	181.6711	179.9532	7.1677e-01	1.9081e+00
35	TAF100136	203.1618	207.8796	205.3084	1.2019e+00	1.9123e+00
36	TAF105136	208.6328	213.4746	210.5144	1.1775e+00	1.9133e+00
37	TAF110136	239.2706	241.8000	240.3428	5.8953e-01	1.9194e+00
38	TAF115136	222.0685	224.7237	223.2486	6.7326e-01	1.9158e+00
39	TAF120136	264.5427	266.2018	265.3023	4.2171e-01	1.9255e+00
40	TAF125136	235.7548	239.0285	236.8365	6.7071e-01	1.9187e+00
41	TAF130136	240.1953	242.4446	241.1404	5.5162e-01	1.9196e+00
42	TAF120048	235.7984	238.0749	237.0670	5.9276e-01	1.9187e+00
43	TAF130048	249.0241	252.0089	250.0058	5.0610e-01	1.9217e+00
44	TAF120224	233.5805	235.9377	234.8215	5.5551e-01	1.9182e+00
45	TAF130224	242.6600	244.5451	243.5802	4.3630e-01	1.9202e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0618	1.9730e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	39.8719	1.9315e-01	1.9011e+00
48	TAI130138	277.9394	278.9508	278.5277	2.6067e-01	1.9291e+00
49	TAI130226	277.8772	278.9765	278.4191	2.3389e-01	1.9290e+00
50	TAI130314	281.2003	282.4871	281.8806	3.0907e-01	1.9300e+00
51	TAI130042	280.1205	281.3143	280.7450	2.8072e-01	1.9297e+00
52	TRR130090	143.2763	145.1802	144.3825	4.5158e-01	1.9037e+00
53	TSI000001	48.2493	49.1156	48.8208	1.8436e-01	1.9003e+00
54	TSI000002	140.6669	142.3738	141.5384	3.5204e-01	1.9034e+00
55	TSO000001	46.2629	47.2428	46.7465	2.3497e-01	1.9004e+00
56	TSO000002	67.1182	67.9715	67.4980	2.2298e-01	1.9000e+00
57	TAF020136	104.7445	107.1337	105.7754	5.6201e-01	1.9009e+00
58	TAF120312	236.4945	238.8451	237.6871	4.9411e-01	1.9188e+00
59	TAF130312	261.2978	263.7945	262.4896	5.9234e-01	1.9248e+00
60	EMPTY	4.7510	4.7754	4.7611	5.2050e-03	0.0000e+00
61	EMPTY	4.7412	4.7510	4.7462	3.0389e-03	0.0000e+00
62	EMPTY	4.7266	4.7363	4.7316	2.6025e-03	0.0000e+00
63	EMPTY	4.7168	4.7314	4.7244	2.8179e-03	0.0000e+00
64	EMPTY	2.1875	2.1924	2.1914	1.9730e-03	0.0000e+00
65	EMPTY	2.1973	2.2021	2.2012	1.9730e-03	0.0000e+00
66	EMPTY	2.2021	2.2119	2.2070	1.3951e-03	0.0000e+00
67	EMPTY	2.2119	2.2168	2.2135	2.3008e-03	0.0000e+00
68	EMPTY	2.2168	2.2217	2.2172	1.3381e-03	0.0000e+00
69	EMPTY	2.2266	2.2266	2.2266	0.0000e+00	0.0000e+00
70	EMPTY	2.2314	2.2363	2.2316	9.6655e-04	0.0000e+00
71	EMPTY	2.2461	2.2461	2.2461	0.0000e+00	0.0000e+00
72	EMPTY	2.2461	2.2510	2.2507	1.1714e-03	0.0000e+00
73	EMPTY	2.2559	2.2607	2.2603	1.4797e-03	0.0000e+00
74	EMPTY	2.2607	2.2656	2.2655	6.9053e-04	0.0000e+00
75	EMPTY	2.2705	2.2754	2.2706	6.9053e-04	0.0000e+00
76	EMPTY	2.2754	2.2803	2.2757	1.1714e-03	0.0000e+00
77	EMPTY	2.2852	2.2900	2.2855	1.3381e-03	0.0000e+00
78	EMPTY	2.2949	2.3047	2.2998	9.8648e-04	0.0000e+00
79	EMPTY	2.3145	2.3193	2.3148	1.3381e-03	0.0000e+00
80	PAN020136	-17.4184	-15.7400	-16.3076	2.7277e-01	8.7095e-01
81	PAN050136	-35.4425	-32.3907	-33.1506	7.0869e-01	1.6820e+00
82	PAN070136	-25.2163	-19.2653	-22.7733	2.0229e+00	8.7186e-01
83	PAN080136	-13.9324	-5.1586	-11.7244	2.3032e+00	8.7049e-01
84	PAN090136	-12.1100	-4.7858	-10.2057	1.5196e+00	8.7037e-01
85	PAN100136	-13.2559	-7.7627	-9.9493	1.0298e+00	8.7036e-01
86	PAN105136	-6.6000	-3.2431	-4.8956	8.4066e-01	8.7009e-01
87	PAN110136	-6.0176	-1.8978	-4.8168	7.9494e-01	8.7008e-01
88	PAN115136	-6.5487	-2.6577	-4.4231	7.9092e-01	8.7007e-01
89	PAN120136	-6.9639	-3.5307	-5.1451	7.7627e-01	8.7010e-01
90	PAN125136	-6.3594	-3.1550	-5.3065	8.0624e-01	8.7010e-01
91	PAN130136	-5.3090	-2.1047	-4.2180	8.3537e-01	8.7006e-01
92	PAN120048	-10.5710	-8.0533	-9.8386	5.1191e-01	8.7035e-01
93	PAN130048	-11.1651	-9.6392	-10.0710	2.8655e-01	8.7036e-01
94	PAN120224	-10.1073	-7.5896	-9.2101	7.0171e-01	8.7030e-01
95	PAN130224	-10.0105	-8.7135	-9.5772	3.2164e-01	8.7033e-01
96	PAN120312	-10.4580	-7.9403	-9.3258	5.3380e-01	8.7031e-01
97	PAN130312	-9.9738	-8.9819	-9.5358	2.5271e-01	8.7033e-01
98	PAB000136	40.1766	40.5886	40.3597	9.5216e-02	5.8871e-01
99	PAB100136	43.9197	44.2401	44.0643	6.8186e-02	5.9037e-01
100	PAB125136	44.9197	45.2401	45.0643	6.8186e-02	5.9084e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.5486	40.1824	1.6172e-01	7.5670e-01
102	PRV000001	19.7263	19.8484	19.7824	6.1457e-02	7.5163e-01
103	PSR000001	45.2813	45.4034	45.3350	6.1209e-02	7.5852e-01
104	PFM000001	1.3117	1.5863	1.4307	8.1153e-02	5.0001e-01
105	PAN000136	-136.8183	-133.1562	-134.8408	7.9255e-01	4.9315e+00
106	PFM000002	1.4530	1.5537	1.5037	2.3362e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0039	2.4164e-03	0.0000e+00
108	EMPTY	-8.9648	-8.0420	-8.4175	1.9276e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0012	2.1065e-03	0.0000e+00
112	VPW000001	100.5972	101.1832	100.8941	1.3805e-01	1.0112e+00
113	VPW000002	119.9557	120.3463	120.1861	1.2283e-01	1.0845e+00
114	VPW000003	147.8440	148.4300	148.1840	1.6652e-01	1.2027e+00
115	VPW000004	105.3335	106.1148	105.6890	1.6120e-01	1.0287e+00
116	VPW000005	140.1405	140.7264	140.5272	1.5020e-01	1.1692e+00
117	VPW000006	147.0365	147.6225	147.3882	1.4764e-01	1.1992e+00
118	IPW000001	541.9255	549.7349	546.2988	1.8735e+00	9.1780e+00
119	IPW000002	1297.3693	1309.0769	1302.6766	3.1547e+00	1.3096e+01
120	IPW000003	1318.5748	1326.3749	1322.9435	1.6032e+00	1.3223e+01
121	IPW000004	383.4229	385.8643	384.8293	6.5910e-01	3.6390e+00
122	IPW000005	253.4396	255.3925	254.3965	4.0622e-01	2.8353e+00
123	IPW000006	266.0851	268.0382	266.9248	4.3045e-01	2.9063e+00
124	EMPTY	-0.0293	-0.0146	-0.0224	3.8321e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	3.0180e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	4.1853e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.1521e-03	0.0000e+00
128	IHT000001	131.3063	134.2360	132.6891	6.8327e-01	4.3094e+00
129	IHT000002	132.0162	134.5553	133.1958	6.3006e-01	4.3109e+00
130	IHT000003	131.2199	134.1496	132.6066	6.5465e-01	4.3091e+00
131	IHT000004	131.8885	134.4276	133.1542	6.2295e-01	4.3108e+00
132	IHT000005	129.4471	131.9862	130.6620	6.1167e-01	4.3032e+00
133	IHT000006	125.5071	128.0461	126.7609	5.8937e-01	4.2915e+00
134	IHT000007	130.3936	132.7374	131.4991	5.6718e-01	4.3057e+00
135	IHT000008	130.6152	132.5683	131.6191	5.6083e-01	4.3061e+00
136	IHT000009	131.3064	134.0407	132.2985	5.9692e-01	4.3082e+00
137	IHT000010	130.1307	132.4745	131.1659	4.7882e-01	4.3047e+00
138	IHT000011	134.5515	136.3093	135.4344	4.5888e-01	4.3179e+00
139	IHT000012	127.8621	130.2058	129.2059	4.6293e-01	4.2988e+00
140	IHT000013	91.6917	94.0354	92.7737	4.3083e-01	4.2037e+00
141	IHT000014	127.6330	130.1720	129.0001	4.6354e-01	4.2982e+00
142	IHT000015	95.3313	97.8704	96.7297	4.6246e-01	4.2126e+00
143	IHT000016	86.8953	89.4343	88.1882	4.4798e-01	4.1538e+00
144	IHT000017	105.2734	108.9844	107.1406	9.5778e-01	4.2377e+00
145	IHT000018	107.8313	110.1750	109.0344	5.1654e-01	4.2425e+00
146	IHT000019	103.9626	106.1110	104.9235	4.8302e-01	4.2321e+00
147	IHT000020	106.7909	108.7440	107.6737	4.5718e-01	4.2390e+00
148	IHT000021	-2.7606	0.1690	-1.4325	6.6028e-01	4.1000e+00
149	IHT000022	90.8241	92.9725	91.7498	5.0963e-01	4.2014e+00
150	IHT000023	105.7993	107.9477	106.8579	5.0546e-01	4.2370e+00
151	IHT000024	70.6881	72.6412	71.7037	4.6522e-01	4.1622e+00
152	IHT000025	103.5795	105.5326	104.6616	4.9318e-01	4.2315e+00
153	IHT000026	105.2622	107.2153	106.2661	4.8329e-01	4.2355e+00
154	IHT000027	88.2925	90.6363	89.3550	5.1321e-01	4.1962e+00
155	IHT000028	90.0466	92.7809	91.2810	5.8052e-01	4.2004e+00

Test: May03_21

sum1

Date: Thu May 3 15:08:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0631	107.6021	106.5826	5.8433e-01	4.2363e+00
157	IHT000030	106.8885	109.6229	108.4315	5.7079e-01	4.2410e+00
158	IHT000031	105.7842	108.7139	107.3389	5.5096e-01	4.2382e+00
159	IHT000032	106.8472	110.3628	108.7339	5.9137e-01	4.2417e+00
160	IHT000033	106.8284	110.1487	108.6917	5.7752e-01	4.2416e+00
161	IHT000034	93.6035	96.3379	95.1270	4.7842e-01	4.2089e+00
162	IHT000035	123.8131	126.7428	125.2388	4.9795e-01	4.2870e+00
163	IHT000036	92.4166	95.3463	93.7173	4.7778e-01	4.2057e+00

Test: May03_21

sum2

Date: Thu May 3 15:08:50 1990

Page: 1

Velocity 1 = 3.1281 (ft/sec) (+/- 17.5317 %)

Velocity 2 = 3.2135 (ft/sec) (+/- 6.1746 %)

Pressure drop = -4.8533 (psi)

Tsats in = 268.0662 (deg F) Tsats out = 274.5957 (deg F)

Phi inner = 101.2272 (kBtu/hr-ft2) (+/- 1.4115 %)

Phi outer = 101.0210 (kBtu/hr-ft2) (+/- 1.6185 %)

D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)

L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0286	77.6656	77.4108	1.8197e-01	1.9000e+00
1	TRF000002	77.4503	77.8725	77.7374	1.1880e-01	1.9000e+00
2	TFM000001	85.7323	86.4671	86.1352	1.8158e-01	1.9002e+00
3	TIN000001	85.9399	86.4660	86.1966	1.4597e-01	1.9002e+00
4	TRV000001	86.0976	86.9353	86.5538	1.7658e-01	1.9002e+00
5	TSR000001	137.2369	139.2447	138.1364	5.0550e-01	1.9031e+00
6	TAO020136	201.9099	202.9710	202.3383	2.7223e-01	1.9118e+00
7	TAO050136	216.2348	218.2278	217.1738	4.3348e-01	1.9145e+00
8	TAO070136	211.6531	212.8049	212.2253	2.3988e-01	1.9136e+00
9	TAO080136	250.8093	251.6475	251.2085	2.0739e-01	1.9220e+00
10	TAO090136	260.9924	262.1968	261.6630	2.8104e-01	1.9246e+00
11	TAO100136	262.9223	263.9414	263.4524	2.5231e-01	1.9250e+00
12	TAO105136	270.0867	271.0112	270.4825	2.8867e-01	1.9269e+00
13	TAO110136	276.8841	277.9804	277.4071	2.2812e-01	1.9288e+00
14	TAO115136	275.1163	276.8707	276.1322	3.4078e-01	1.9284e+00
15	TAO120136	284.9480	285.7672	285.3628	1.7841e-01	1.9310e+00
16	TAO125136	278.8481	280.7733	280.1683	3.6650e-01	1.9295e+00
17	TAO130136	276.4651	277.8242	277.2079	2.8386e-01	1.9287e+00
18	TAO120048	285.7865	286.6100	286.2769	1.4753e-01	1.9313e+00
19	TAO130048	283.7098	284.5331	284.1090	1.8515e-01	1.9306e+00
20	TAO120224	286.3768	287.2912	286.8051	2.0100e-01	1.9314e+00
21	TAO130224	276.2072	277.1185	276.6714	2.0919e-01	1.9286e+00
22	TAO120312	284.0556	284.9723	284.4482	2.0027e-01	1.9307e+00
23	TAO130312	283.3975	284.0381	283.7779	1.6048e-01	1.9305e+00
24	TRT020000	199.4902	201.4242	200.2947	3.6845e-01	1.9114e+00
25	TRT070000	249.6012	250.9164	250.4279	2.7570e-01	1.9218e+00
26	TRT100000	277.2183	278.3185	277.8823	2.3760e-01	1.9289e+00
27	TRT120000	284.8095	285.6328	285.1101	1.4795e-01	1.9309e+00
28	TRT125000	290.1294	290.8576	290.4105	1.6608e-01	1.9325e+00
29	TRT130000	284.5653	285.6612	285.1241	2.4380e-01	1.9309e+00
30	EMPTY	39.1464	40.0646	39.5505	2.3447e-01	1.9011e+00
31	TAF050136	143.1088	147.6073	145.0183	8.7690e-01	1.9038e+00
32	TAF070136	168.6846	170.7448	169.4541	4.2650e-01	1.9067e+00
33	TAF080136	247.8068	250.1232	248.9306	5.0683e-01	1.9214e+00
34	TAF090136	179.0345	182.5480	180.4297	8.4339e-01	1.9082e+00
35	TAF100136	203.7406	207.7836	205.2316	8.2667e-01	1.9123e+00
36	TAF105136	208.2511	211.0101	209.7625	5.8296e-01	1.9131e+00
37	TAF110136	239.0837	241.5179	240.2456	5.6815e-01	1.9194e+00
38	TAF115136	221.5945	223.9662	222.7291	5.2629e-01	1.9157e+00
39	TAF120136	263.8046	265.2813	264.7050	3.3959e-01	1.9254e+00
40	TAF125136	234.3518	237.3470	235.6621	5.9716e-01	1.9184e+00
41	TAF130136	239.5389	242.1631	240.4994	6.0647e-01	1.9195e+00
42	TAF120048	236.5576	238.4552	237.4994	5.1355e-01	1.9188e+00
43	TAF130048	251.4498	256.6601	253.4644	1.1876e+00	1.9225e+00
44	TAF120224	234.1468	236.4090	235.3534	4.9770e-01	1.9183e+00
45	TAF130224	243.7908	245.6759	244.4213	4.5512e-01	1.9204e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0848	1.9092e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.8857	1.3348e-01	1.9011e+00
48	TAI130138	278.3993	279.5019	278.8513	2.4895e-01	1.9292e+00
49	TAI130226	278.4267	279.3423	278.8145	2.0224e-01	1.9292e+00
50	TAI130314	281.7524	282.7627	282.2961	2.5642e-01	1.9301e+00
51	TAI130042	281.3142	282.5986	281.8206	2.6427e-01	1.9300e+00
52	TRR130090	140.6684	143.1774	141.8930	7.7472e-01	1.9035e+00
53	TSI000001	48.3573	49.1156	48.6827	1.7901e-01	1.9003e+00
54	TSI000002	138.6577	139.9654	139.3738	3.2395e-01	1.9032e+00
55	TSO000001	46.1545	47.0249	46.6767	2.2319e-01	1.9004e+00
56	TSO000002	67.1182	68.1833	67.6941	2.2162e-01	1.9000e+00
57	TAF020136	104.6412	107.5489	106.2701	5.8399e-01	1.9009e+00
58	TAF120312	236.4945	238.4689	237.3601	4.8615e-01	1.9188e+00
59	TAF130312	257.5018	259.9117	258.7514	5.5847e-01	1.9239e+00
60	EMPTY	4.6436	4.6777	4.6625	8.4077e-03	0.0000e+00
61	EMPTY	4.6338	4.6582	4.6481	6.6476e-03	0.0000e+00
62	EMPTY	4.6240	4.6436	4.6350	6.0457e-03	0.0000e+00
63	EMPTY	4.6191	4.6338	4.6280	4.9017e-03	0.0000e+00
64	EMPTY	2.1436	2.1533	2.1466	2.5894e-03	0.0000e+00
65	EMPTY	2.1533	2.1582	2.1563	2.3941e-03	0.0000e+00
66	EMPTY	2.1582	2.1680	2.1628	3.1828e-03	0.0000e+00
67	EMPTY	2.1680	2.1777	2.1704	2.6562e-03	0.0000e+00
68	EMPTY	2.1729	2.1777	2.1747	2.3941e-03	0.0000e+00
69	EMPTY	2.1777	2.1875	2.1834	3.0180e-03	0.0000e+00
70	EMPTY	2.1875	2.1924	2.1893	2.3675e-03	0.0000e+00
71	EMPTY	2.1973	2.2070	2.2031	2.2058e-03	0.0000e+00
72	EMPTY	2.2021	2.2119	2.2082	2.7124e-03	0.0000e+00
73	EMPTY	2.2119	2.2217	2.2170	3.1133e-03	0.0000e+00
74	EMPTY	2.2217	2.2266	2.2231	2.2603e-03	0.0000e+00
75	EMPTY	2.2266	2.2314	2.2297	2.3675e-03	0.0000e+00
76	EMPTY	2.2314	2.2412	2.2357	2.3428e-03	0.0000e+00
77	EMPTY	2.2412	2.2510	2.2466	1.7784e-03	0.0000e+00
78	EMPTY	2.2559	2.2607	2.2601	1.7115e-03	0.0000e+00
79	EMPTY	2.2705	2.2803	2.2756	2.1970e-03	0.0000e+00
80	PAN020136	-17.8762	-14.9770	-16.1504	6.0662e-01	8.7094e-01
81	PAN050136	-35.7476	-32.0855	-34.0051	1.2141e+00	1.6821e+00
82	PAN070136	-25.2163	-23.0037	-24.4732	7.9044e-01	8.7215e-01
83	PAN080136	-10.8806	-3.3275	-8.4132	1.5744e+00	8.7025e-01
84	PAN090136	-12.1100	-4.3280	-10.6192	1.7543e+00	8.7040e-01
85	PAN100136	-13.3322	-6.9235	-9.7403	1.4025e+00	8.7034e-01
86	PAN105136	-5.6082	-2.7853	-4.7812	4.8580e-01	8.7008e-01
87	PAN110136	-5.7124	-3.9577	-4.7283	3.8480e-01	8.7008e-01
88	PAN115136	-5.5569	-3.9547	-4.6337	2.9659e-01	8.7008e-01
89	PAN120136	-5.5143	-4.0647	-4.7346	3.1675e-01	8.7008e-01
90	PAN125136	-5.6727	-4.2994	-4.6763	2.7504e-01	8.7008e-01
91	PAN130136	-5.3090	-4.7750	-5.1183	1.2827e-01	8.7009e-01
92	PAN120048	-10.4947	-9.6555	-10.1209	1.3547e-01	8.7037e-01
93	PAN130048	-10.1733	-9.7918	-9.9627	8.5209e-02	8.7036e-01
94	PAN120224	-9.6495	-8.1999	-9.2101	3.5903e-01	8.7030e-01
95	PAN130224	-10.0105	-9.7816	-9.9006	6.3851e-02	8.7035e-01
96	PAN120312	-9.6188	-8.6270	-9.2892	2.5160e-01	8.7031e-01
97	PAN130312	-9.9738	-9.6686	-9.8090	7.7621e-02	8.7035e-01
98	PAB000136	40.3597	40.6344	40.4705	6.6104e-02	5.8876e-01
99	PAB100136	44.0112	44.2859	44.1550	5.7763e-02	5.9041e-01
100	PAB125136	45.0112	45.2401	45.1110	5.2877e-02	5.9086e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9383	40.5486	40.2971	1.3145e-01	7.5674e-01
102	PRV000001	19.7263	19.8484	19.8337	4.0071e-02	7.5164e-01
103	PSR000001	45.4034	45.5254	45.4351	5.4088e-02	7.5855e-01
104	PFM000001	1.3117	1.5863	1.4325	7.7243e-02	5.0001e-01
105	PAN000136	-137.7338	-132.2406	-134.3647	9.9503e-01	4.9315e+00
106	PFM000002	1.4866	1.5369	1.5141	1.5446e-02	2.0004e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-8.2910	-7.7734	-8.0454	1.2505e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0002	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0021	2.4344e-03	0.0000e+00
112	VPW000001	100.7925	101.1832	100.8941	1.1327e-01	1.0112e+00
113	VPW000002	119.9557	120.5416	120.1236	1.6746e-01	1.0842e+00
114	VPW000003	147.8440	148.4300	148.1293	1.4875e-01	1.2025e+00
115	VPW000004	105.5288	106.1148	105.7280	1.3375e-01	1.0288e+00
116	VPW000005	140.3358	140.9217	140.6444	1.4276e-01	1.1697e+00
117	VPW000006	147.2318	147.6225	147.4389	1.2731e-01	1.1994e+00
118	IPW000001	541.9255	551.6872	546.9623	3.0062e+00	9.1805e+00
119	IPW000002	1295.4180	1307.1256	1300.2574	2.8764e+00	1.3081e+01
120	IPW000003	1318.5748	1324.4249	1321.4224	2.0169e+00	1.3213e+01
121	IPW000004	380.9815	382.4463	381.7238	3.1567e-01	3.6186e+00
122	IPW000005	253.4396	254.4161	253.9082	3.4112e-01	2.8326e+00
123	IPW000006	266.0851	267.5499	266.7881	3.5786e-01	2.9055e+00
124	EMPTY	-0.0293	-0.0098	-0.0212	4.5858e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	3.3322e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	3.2851e-03	0.0000e+00
127	EMPTY	-0.0293	-0.0098	-0.0179	3.8975e-03	0.0000e+00
128	IHT000001	131.5016	133.8454	132.6227	5.2320e-01	4.3092e+00
129	IHT000002	132.2115	134.1647	133.1216	4.9851e-01	4.3107e+00
130	IHT000003	131.4153	133.7590	132.4621	5.0649e-01	4.3087e+00
131	IHT000004	132.0838	134.0370	133.0018	5.1938e-01	4.3103e+00
132	IHT000005	129.6424	131.5955	130.5839	4.9077e-01	4.3029e+00
133	IHT000006	125.8977	127.6555	126.7179	4.7515e-01	4.2914e+00
134	IHT000007	130.3936	132.5421	131.4053	4.7300e-01	4.3054e+00
135	IHT000008	130.4199	132.3730	131.5332	4.5549e-01	4.3058e+00
136	IHT000009	131.3064	133.2595	132.2477	4.2807e-01	4.3080e+00
137	IHT000010	129.5448	132.2792	131.0175	5.4706e-01	4.3042e+00
138	IHT000011	134.1609	136.5046	135.3914	4.9481e-01	4.3178e+00
139	IHT000012	128.0574	130.5964	129.1864	5.1492e-01	4.2987e+00
140	IHT000013	91.6917	94.0354	92.7776	4.8192e-01	4.2037e+00
141	IHT000014	127.8283	129.9767	129.0470	5.0155e-01	4.2983e+00
142	IHT000015	95.7219	97.6750	96.7063	4.6010e-01	4.2125e+00
143	IHT000016	87.0906	89.4343	88.1648	4.5890e-01	4.1937e+00
144	IHT000017	105.4688	108.9844	107.5039	6.5565e-01	4.2386e+00
145	IHT000018	107.8313	110.3703	109.1515	5.5039e-01	4.2428e+00
146	IHT000019	103.9626	106.5017	104.8962	5.3567e-01	4.2321e+00
147	IHT000020	106.7909	109.1346	107.6502	5.4960e-01	4.2390e+00
148	IHT000021	-2.3700	0.3644	-1.3974	6.4656e-01	4.1000e+00
149	IHT000022	91.0194	92.9725	91.8514	4.7648e-01	4.2016e+00
150	IHT000023	105.9946	108.5336	106.8774	5.8293e-01	4.2370e+00
151	IHT000024	70.6881	73.2271	71.7349	5.5068e-01	4.1623e+00
152	IHT000025	103.7748	106.3139	104.7085	5.5001e-01	4.2316e+00
153	IHT000026	105.2622	107.9965	106.2974	5.6806e-01	4.2356e+00
154	IHT000027	88.4878	91.0269	89.4527	5.4734e-01	4.1964e+00
155	IHT000028	90.0466	92.7809	91.2575	5.7724e-01	4.2003e+00

Test: May03_21

sum2

Date: Thu May 3 15:08:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4537	107.9928	106.4576	5.4535e-01	4.2360e+00
157	IHT000030	107.2792	109.8182	108.3378	5.2213e-01	4.2407e+00
158	IHT000031	106.1749	108.7139	107.2100	5.0724e-01	4.2379e+00
159	IHT000032	107.6285	109.9722	108.5698	4.9707e-01	4.2413e+00
160	IHT000033	107.4144	109.9534	108.5120	5.0515e-01	4.2412e+00
161	IHT000034	94.1895	96.5332	95.0293	4.6563e-01	4.2087e+00
162	IHT000035	124.3990	126.7428	125.2505	4.5807e-01	4.2870e+00
163	IHT000036	92.8072	94.9557	93.6392	4.5985e-01	4.2056e+00

Velocity 1 = 0.002100 (ft/sec)

Velocity 2 = 0.011000 (ft/sec)

Pressure Drop = 0.017100 (psi)

Tsat in = 0.163605 (deg F) Tsat out = 0.062897 (deg F)

Phi inner = 0.130997 (kBtu/hr-ft2) Phi outer = 0.230995 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0594	0.0768
1	TRF000002	0.0169	0.0217
2	TFM000001	0.7801	0.9139
3	TIN000001	0.6859	0.8021
4	TRV000001	0.8449	0.9858
5	TSR000001	5.0976	3.8317
6	TAO020136	0.7257	0.3600
7	TAO050136	0.9599	0.4440
8	TAO070136	0.9991	0.4730
9	TAO080136	1.2024	0.4809
10	TAO090136	0.9964	0.3823
11	TAO100136	1.4589	0.5568
12	TAO105136	1.9306	0.7189
13	TAO110136	0.8120	0.2936
14	TAO115136	0.9973	0.3625
15	TAO120136	0.6462	0.2270
16	TAO125136	1.0701	0.3834
17	TAO130136	0.6050	0.2187
18	TAO120048	0.8737	0.3061
19	TAO130048	1.4342	0.5074
20	TAO120224	0.9398	0.3288
21	TAO130224	0.9337	0.3386
22	TAO120312	0.1065	0.0375
23	TAO130312	0.5627	0.1987
24	TRT020000	0.5690	0.2849
25	TRT070000	0.6996	0.2801
26	TRT100000	0.8469	0.3057
27	TRT120000	1.2435	0.4381
28	TRT125000	0.4136	0.1426
29	TRT130000	0.3870	0.1359
30	EMPTY	0.0689	0.1739
31	TAF050136	0.8283	0.5744
32	TAF070136	0.6082	0.3602
33	TAF080136	1.9377	0.7724
34	TAF090136	0.4765	0.2648
35	TAF100136	0.0768	0.0374
36	TAF105136	0.7519	0.3572
37	TAF110136	0.0972	0.0404
38	TAF115136	0.5195	0.2327
39	TAF120136	0.5973	0.2251
40	TAF125136	1.1744	0.4959
41	TAF130136	0.6410	0.2658
42	TAF120048	0.4324	0.1824
43	TAF130048	3.4586	1.3834
44	TAF120224	0.5319	0.2265
45	TAF130224	0.8411	0.3453

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0138	0.0346
48	TAI130138	0.3236	0.1162
49	TAI130226	0.3954	0.1420
50	TAI130314	0.4155	0.1474
51	TAI130042	1.0756	0.3831
52	TRR130090	2.4895	1.7242
53	TSI000001	0.1381	0.2829
54	TSI000002	2.1646	1.5293
55	TSO000001	0.0698	0.1493
56	TSO000002	0.1961	0.2905
57	TAF020136	0.4947	0.4677
58	TAF120312	0.3270	0.1376
59	TAF130312	3.7382	1.4241
60	EMPTY	0.0986	2.0709
61	EMPTY	0.0981	2.0669
62	EMPTY	0.0966	2.0416
63	EMPTY	0.0964	2.0405
64	EMPTY	0.0448	2.0444
65	EMPTY	0.0449	2.0398
66	EMPTY	0.0442	2.0027
67	EMPTY	0.0431	1.9471
68	EMPTY	0.0425	1.9168
69	EMPTY	0.0432	1.9402
70	EMPTY	0.0423	1.8955
71	EMPTY	0.0430	1.9144
72	EMPTY	0.0425	1.8883
73	EMPTY	0.0433	1.9157
74	EMPTY	0.0424	1.8716
75	EMPTY	0.0409	1.8013
76	EMPTY	0.0400	1.7577
77	EMPTY	0.0389	1.7020
78	EMPTY	0.0397	1.7262
79	EMPTY	0.0392	1.6935
80	PAN020136	0.1572	0.9640
81	PAN050136	0.8545	2.5776
82	PAN070136	1.6999	7.4644
83	PAN080136	3.3112	28.2420
84	PAN090136	0.4135	4.0517
85	PAN100136	0.2090	2.1006
86	PAN105136	0.1144	2.3368
87	PAN110136	0.0885	1.8373
88	PAN115136	0.2106	4.7614
89	PAN120136	0.4105	7.9785
90	PAN125136	0.6302	11.8760
91	PAN130136	0.9003	21.3442
92	PAN120048	0.2823	2.8693
93	PAN130048	0.1083	1.0754
94	PAN120224	0.0000	0.0000
95	PAN130224	0.3234	3.3768
96	PAN120312	0.0366	0.3925
97	PAN130312	0.2732	2.8650
98	PAB000136	0.1108	0.2745
99	PAB100136	0.0907	0.2058
100	PAB125136	0.0467	0.1036

Test: May03_21

dif

Date: Thu May 3 15:08:50 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1147	0.2854
102	PRV000001	0.0513	0.2593
103	PSR000001	0.1001	0.2208
104	PFM000001	0.0018	0.1258
105	PAN000136	0.4761	0.3531
106	PFM000002	0.0104	0.6916
107	EMPTY	0.0009	23.0769
108	EMPTY	0.3721	4.4206
109	EMPTY	0.0007	77.7778
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0009	75.0000
112	VPW000001	0.0000	0.0000
113	VPW000002	0.0625	0.0520
114	VPW000003	0.0547	0.0369
115	VPW000004	0.0390	0.0369
116	VPW000005	0.1172	0.0834
117	VPW000006	0.0507	0.0344
118	IPW000001	0.6635	0.1214
119	IPW000002	2.4192	0.1857
120	IPW000003	1.5211	0.1150
121	IPW000004	3.1055	0.8070
122	IPW000005	0.4883	0.1919
123	IPW000006	0.1367	0.0512
124	EMPTY	0.0012	5.3571
125	EMPTY	0.0005	3.5971
126	EMPTY	0.0001	0.5682
127	EMPTY	0.0010	5.9172
128	IHT000001	0.0664	0.0500
129	IHT000002	0.0742	0.0557
130	IHT000003	0.1445	0.1090
131	IHT000004	0.1524	0.1145
132	IHT000005	0.0781	0.0598
133	IHT000006	0.0430	0.0339
134	IHT000007	0.0938	0.0713
135	IHT000008	0.0859	0.0653
136	IHT000009	0.0508	0.0384
137	IHT000010	0.1484	0.1131
138	IHT000011	0.0430	0.0317
139	IHT000012	0.0195	0.0151
140	IHT000013	0.0039	0.0042
141	IHT000014	0.0469	0.0363
142	IHT000015	0.0234	0.0242
143	IHT000016	0.0234	0.0265
144	IHT000017	0.3633	0.3391
145	IHT000018	0.1171	0.1074
146	IHT000019	0.0273	0.0260
147	IHT000020	0.0235	0.0218
148	IHT000021	0.0351	2.4503
149	IHT000022	0.1016	0.1107
150	IHT000023	0.0195	0.0182
151	IHT000024	0.0312	0.0435
152	IHT000025	0.0469	0.0448
153	IHT000026	0.0313	0.0295
154	IHT000027	0.0977	0.1093
155	IHT000028	0.0235	0.0257

Test: May03_21 dif Date: Thu May 3 15:08:50 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1250	0.1173
157	IHT000030	0.0937	0.0864
158	IHT000031	0.1289	0.1201
159	IHT000032	0.1641	0.1509
160	IHT000033	0.1797	0.1653
161	IHT000034	0.0977	0.1027
162	IHT000035	0.0117	0.0093
163	IHT000036	0.0781	0.0833

Velocity 1 = 26.0120 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4278 (ft/sec) (+/- 1.7031 %)
Pressure drop = 18.4551 (psi)
Tsat in = 292.6398 (deg F) Tsat out = 270.8284 (deg F)
Phi inner = 102.1363 (kBtu/hr-ft2) (+/- 1.4086 %)
Phi outer = 102.0675 (kBtu/hr-ft2) (+/- 1.6160 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0539	73.6925	73.4201	1.6679e-01	1.9000e+00
1	TRF000002	72.9394	73.5746	73.3459	1.5328e-01	1.9000e+00
2	TFM000001	85.8191	86.6571	86.2050	1.8878e-01	1.9002e+00
3	TIN000001	85.2460	85.9828	85.5956	1.5672e-01	1.9002e+00
4	TRV000001	85.2411	86.0789	85.6807	2.0930e-01	1.9002e+00
5	TSR000001	103.1167	104.1489	103.6293	2.6616e-01	1.9008e+00
6	TAO020136	107.0163	107.9476	107.3559	2.1004e-01	1.9009e+00
7	TAO050136	107.2193	107.8384	107.4343	1.6629e-01	1.9009e+00
8	TAO070136	112.1202	112.9442	112.5199	1.9490e-01	1.9012e+00
9	TAO080136	114.2046	114.8187	114.4910	1.6161e-01	1.9013e+00
10	TAO090136	115.6581	116.4771	116.0509	1.7590e-01	1.9014e+00
11	TAO100136	112.1711	112.8902	112.5981	1.5449e-01	1.9012e+00
12	TAO105136	114.1768	115.1019	114.6947	2.1871e-01	1.9013e+00
13	TAO110136	115.7748	116.4891	116.1949	1.6198e-01	1.9014e+00
14	TAO115136	114.3251	115.1488	114.7700	1.9546e-01	1.9013e+00
15	TAO120136	119.1925	119.6019	119.3725	1.2112e-01	1.9016e+00
16	TAO125136	115.0991	115.8166	115.5253	1.8203e-01	1.9014e+00
17	TAO130136	114.6872	115.2999	114.9849	1.6328e-01	1.9014e+00
18	TAO120048	118.9306	119.6465	119.3599	1.6126e-01	1.9016e+00
19	TAO130048	115.7734	116.4900	116.1541	1.4928e-01	1.9014e+00
20	TAO120224	118.3353	119.0524	118.6592	1.7343e-01	1.9016e+00
21	TAO130224	113.7113	114.4266	114.0835	1.6888e-01	1.9013e+00
22	TAO120312	117.6029	118.4227	118.0415	1.8974e-01	1.9016e+00
23	TAO130312	118.0468	118.6606	118.3822	1.4174e-01	1.9016e+00
24	TRT020000	105.6921	106.4181	106.0199	1.8536e-01	1.9009e+00
25	TRT070000	112.3589	112.9792	112.6610	1.7677e-01	1.9012e+00
26	TRT100000	120.1092	120.9247	120.5862	1.7544e-01	1.9017e+00
27	TRT120000	117.2469	117.8614	117.5950	1.5342e-01	1.9015e+00
28	TRT125000	120.5584	121.4737	121.0059	1.9059e-01	1.9018e+00
29	TRT130000	119.3490	119.8607	119.5948	1.4882e-01	1.9017e+00
30	EMPTY	39.1464	39.8352	39.5460	2.2631e-01	1.9011e+00
31	TAF050136	93.1474	93.7730	93.4850	1.5262e-01	1.9004e+00
32	TAF070136	96.3941	97.0174	96.7064	1.5259e-01	1.9005e+00
33	TAF080136	114.4470	115.0597	114.8068	1.5202e-01	1.9014e+00
34	TAF090136	99.4941	100.5313	99.9590	2.2884e-01	1.9006e+00
35	TAF100136	99.5550	100.3875	100.0003	1.9724e-01	1.9006e+00
36	TAF105136	100.4707	101.2965	100.8056	2.0347e-01	1.9006e+00
37	TAF110136	104.8083	105.3251	105.0934	1.2433e-01	1.9008e+00
38	TAF115136	102.3450	103.0708	102.6812	1.6413e-01	1.9007e+00
39	TAF120136	108.2608	108.9814	108.6639	1.3465e-01	1.9010e+00
40	TAF125136	103.5811	104.7147	104.2528	2.5251e-01	1.9008e+00
41	TAF130136	104.6779	105.2983	104.9508	1.7183e-01	1.9008e+00
42	TAF120048	103.9497	104.9894	104.5491	1.9996e-01	1.9008e+00
43	TAF130048	105.0888	105.8123	105.5186	1.7003e-01	1.9008e+00
44	TAF120224	103.6367	104.3615	104.0962	1.7638e-01	1.9008e+00
45	TAF130224	104.3452	105.1769	104.7613	1.8644e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0388	1.9538e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2016	1.0940e-01	1.9010e+00
48	TAI130138	114.5727	115.9067	115.2501	3.4928e-01	1.9014e+00
49	TAI130226	112.8121	113.7346	113.3897	1.7526e-01	1.9013e+00
50	TAI130314	115.2465	116.0691	115.6700	2.2447e-01	1.9014e+00
51	TAI130042	112.9721	113.5896	113.2644	1.7307e-01	1.9013e+00
52	TRR130090	122.3220	124.7624	123.7131	5.4780e-01	1.9019e+00
53	TSI000001	46.1929	46.8440	46.4796	1.5750e-01	1.9004e+00
54	TSI000002	108.9262	110.1593	109.6490	3.0159e-01	1.9011e+00
55	TSO000001	45.2423	46.1136	45.5869	1.9957e-01	1.9004e+00
56	TSO000002	51.4228	52.2864	51.7899	2.2547e-01	1.9002e+00
57	TAF020136	86.6516	87.3895	87.0482	1.8601e-01	1.9002e+00
58	TAF120312	103.3791	104.5158	103.8999	3.0741e-01	1.9008e+00
59	TAF130312	106.9240	107.7494	107.2833	1.8550e-01	1.9009e+00
60	EMPTY	0.9912	1.0010	0.9931	2.5894e-03	0.0000e+00
61	EMPTY	1.0010	1.0059	1.0041	2.3675e-03	0.0000e+00
62	EMPTY	1.0107	1.0205	1.0152	1.9331e-03	0.0000e+00
63	EMPTY	1.0254	1.0352	1.0285	2.5648e-03	0.0000e+00
64	EMPTY	0.5762	0.5811	0.5771	1.9730e-03	0.0000e+00
65	EMPTY	0.5957	0.6006	0.5975	2.3675e-03	0.0000e+00
66	EMPTY	0.6104	0.6201	0.6126	2.6488e-03	0.0000e+00
67	EMPTY	0.6299	0.6348	0.6300	6.9053e-04	0.0000e+00
68	EMPTY	0.6396	0.6494	0.6436	2.2058e-03	0.0000e+00
69	EMPTY	0.6592	0.6641	0.6593	6.9053e-04	0.0000e+00
70	EMPTY	0.6738	0.6787	0.6739	6.9053e-04	0.0000e+00
71	EMPTY	0.6934	0.6982	0.6981	6.9053e-04	0.0000e+00
72	EMPTY	0.7080	0.7129	0.7086	1.6028e-03	0.0000e+00
73	EMPTY	0.7275	0.7324	0.7277	9.6655e-04	0.0000e+00
74	EMPTY	0.7373	0.7471	0.7423	1.2041e-03	0.0000e+00
75	EMPTY	0.7568	0.7617	0.7577	1.8950e-03	0.0000e+00
76	EMPTY	0.7715	0.7764	0.7719	1.3381e-03	0.0000e+00
77	EMPTY	0.7910	0.7910	0.7910	0.0000e+00	0.0000e+00
78	EMPTY	0.8105	0.8154	0.8126	2.4344e-03	0.0000e+00
79	EMPTY	0.8350	0.8350	0.8350	0.0000e+00	0.0000e+00
80	PAN020136	62.7871	66.6018	64.8440	1.1420e+00	8.8497e-01
81	PAN050136	116.3590	117.7323	117.0487	2.9446e-01	1.7053e+00
82	PAN070136	82.8835	84.2568	83.4755	2.7511e-01	8.9468e-01
83	PAN080136	42.1218	43.0373	42.6147	1.9931e-01	8.7650e-01
84	PAN090136	36.7871	37.4737	37.2052	1.6690e-01	8.7496e-01
85	PAN100136	39.8299	40.3640	40.0710	1.2556e-01	8.7575e-01
86	PAN105136	19.5790	19.9604	19.7544	1.0926e-01	8.7140e-01
87	PAN110136	22.9829	23.5932	23.3109	1.4148e-01	8.7195e-01
88	PAN115136	19.9458	20.4798	20.2113	1.2258e-01	8.7147e-01
89	PAN120136	16.0402	16.4216	16.2187	7.9511e-02	8.7094e-01
90	PAN125136	22.0585	22.5926	22.3759	1.2744e-01	8.7180e-01
91	PAN130136	20.7865	21.1680	20.9544	1.2038e-01	8.7158e-01
92	PAN120048	45.9614	46.4955	46.2315	1.2636e-01	8.7764e-01
93	PAN130048	37.2712	37.7290	37.4772	1.0595e-01	8.7503e-01
94	PAN120224	36.3043	36.7621	36.5225	1.1222e-01	8.7478e-01
95	PAN130224	40.1923	40.7264	40.4807	1.2262e-01	8.7587e-01
96	PAN120312	40.5958	41.2062	40.8644	1.3978e-01	8.7598e-01
97	PAN130312	43.1268	43.7372	43.4030	1.4775e-01	8.7674e-01
98	PAB000136	59.8322	60.2442	60.0281	9.3877e-02	5.9910e-01
99	PAB100136	45.9303	46.1134	46.0182	4.5156e-02	5.9130e-01
100	PAB125136	42.3147	42.4521	42.3815	4.9120e-02	5.8960e-01

Test: May07_01

sum1

Date: Mon May 7 12:04:38 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5208	60.3753	59.9309	1.6683e-01	7.6482e-01
102	PRV000001	19.3854	19.6296	19.5490	6.3406e-02	7.5159e-01
103	PSR000001	39.0906	39.2127	39.1248	5.5366e-02	7.5635e-01
104	PFM000001	103.2644	105.2786	104.3795	4.9758e-01	5.6400e-01
105	PAN000136	507.3693	513.7780	510.9399	1.5558e+00	5.0831e+00
106	PFM000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0049	0.0098	0.0091	1.7115e-03	0.0000e+00
108	EMPTY	-9.0723	-8.3008	-8.7347	1.5775e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0083	2.2603e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0004	1.3381e-03	0.0000e+00
112	VPW000001	101.7728	102.5541	102.1751	2.0659e-01	1.0158e+00
113	VPW000002	119.3322	119.7228	119.5118	1.5201e-01	1.0818e+00
114	VPW000003	147.2881	147.8741	147.5381	1.5303e-01	1.1999e+00
115	VPW000004	104.5974	105.7692	105.2653	2.4031e-01	1.0271e+00
116	VPW000005	139.2240	140.2006	139.8686	2.2408e-01	1.1664e+00
117	VPW000006	146.2365	147.0177	146.5646	1.5505e-01	1.1956e+00
118	IPW000001	543.5775	551.3869	547.7556	1.8505e+00	9.1834e+00
119	IPW000002	1321.4598	1327.3136	1324.4261	1.9805e+00	1.3232e+01
120	IPW000003	1334.2500	1344.0000	1340.1385	2.9871e+00	1.3330e+01
121	IPW000004	380.9439	384.8501	383.1217	8.5551e-01	3.6278e+00
122	IPW000005	255.3831	257.8243	256.2618	5.4026e-01	2.8458e+00
123	IPW000006	268.4045	270.3576	269.2735	4.6574e-01	2.9198e+00
124	EMPTY	-0.0342	-0.0146	-0.0234	4.1853e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.2718e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0195	4.0673e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
128	IHT000001	131.8885	134.6229	133.3260	6.2858e-01	4.3113e+00
129	IHT000002	132.4557	134.9947	133.8033	5.9615e-01	4.3128e+00
130	IHT000003	131.4153	133.9543	132.8293	6.0304e-01	4.3098e+00
131	IHT000004	131.9035	134.8332	133.4777	5.9505e-01	4.3118e+00
132	IHT000005	129.6725	132.4069	130.9693	6.1733e-01	4.3041e+00
133	IHT000006	125.9089	128.4480	127.0301	5.8635e-01	4.2923e+00
134	IHT000007	130.4124	132.9514	131.5218	5.4454e-01	4.3058e+00
135	IHT000008	130.6303	133.1693	131.6342	5.4820e-01	4.3061e+00
136	IHT000009	131.4829	134.2172	132.5884	5.7265e-01	4.3091e+00
137	IHT000010	130.5025	132.2604	131.4400	4.1007e-01	4.3055e+00
138	IHT000011	134.7356	136.8840	135.7668	4.2506e-01	4.3189e+00
139	IHT000012	128.6358	130.9796	129.6397	5.0534e-01	4.3001e+00
140	IHT000013	92.0523	94.7867	93.2515	5.0534e-01	4.2047e+00
141	IHT000014	128.2039	130.3523	129.3563	5.3561e-01	4.2992e+00
142	IHT000015	96.3003	98.4488	97.1870	5.1329e-01	4.2136e+00
143	IHT000016	89.2052	91.1583	90.2482	4.7287e-01	4.1982e+00
144	IHT000017	105.2434	108.7590	106.8449	7.5798e-01	4.2369e+00
145	IHT000018	108.2294	110.7685	109.3818	5.9745e-01	4.2434e+00
146	IHT000019	103.3541	106.2838	105.0337	5.9582e-01	4.2324e+00
147	IHT000020	106.4153	109.5403	108.0715	6.0133e-01	4.2400e+00
148	IHT000021	-3.7522	-0.4319	-1.6741	6.6587e-01	4.1000e+00
149	IHT000022	92.1537	95.0834	94.0092	5.4854e-01	4.2064e+00
150	IHT000023	105.5965	108.5262	107.3504	5.2421e-01	4.2382e+00
151	IHT000024	70.9172	73.4563	72.5578	4.9756e-01	4.1637e+00
152	IHT000025	102.8921	105.4312	104.5562	5.0723e-01	4.2312e+00
153	IHT000026	104.8753	107.4144	106.4691	5.1351e-01	4.2360e+00
154	IHT000027	89.6334	92.3678	91.2701	5.5648e-01	4.2004e+00
155	IHT000028	92.1049	94.6439	93.1870	5.9216e-01	4.2046e+00

Test: May07_01

sum1

Date: Mon May 7 12:04:38 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6265	107.7749	106.6538	5.9426e-01	4.2364e+00
157	IHT000030	107.6435	110.1825	108.8584	6.1674e-01	4.2421e+00
158	IHT000031	106.7233	108.8717	107.7740	5.4945e-01	4.2393e+00
159	IHT000032	107.9890	110.5281	109.0672	5.8293e-01	4.2426e+00
160	IHT000033	107.7787	110.3178	108.9897	5.8793e-01	4.2424e+00
161	IHT000034	94.5425	96.3003	95.4019	4.1946e-01	4.2095e+00
162	IHT000035	124.7859	126.7390	125.6649	4.7882e-01	4.2883e+00
163	IHT000036	93.1866	94.9444	93.9756	4.5500e-01	4.2063e+00

Velocity 1 = 25.9792 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4274 (ft/sec) (+/- 1.7031 %)
Pressure drop = 18.4201 (psi)
Tsats in = 292.5730 (deg F) Tsats out = 270.7778 (deg F)
Phi inner = 100.7522 (kBtu/hr-ft2) (+/- 1.4125 %)
Phi outer = 101.4246 (kBtu/hr-ft2) (+/- 1.6170 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.0539	73.9053	73.5010	2.0285e-01	1.9000e+00
1	TRF000002	73.1511	73.5746	73.4645	1.2278e-01	1.9000e+00
2	TFM000001	85.3999	86.1351	85.7715	1.7508e-01	1.9002e+00
3	TIN000001	84.8258	85.4567	85.1559	1.4877e-01	1.9002e+00
4	TRV000001	84.9278	85.7658	85.3363	2.0446e-01	1.9002e+00
5	TSR000001	101.8789	103.1194	102.5142	3.0034e-01	1.9007e+00
6	TAO020136	106.3954	107.5337	106.9191	2.7047e-01	1.9009e+00
7	TAO050136	106.6031	107.5311	106.9889	1.8132e-01	1.9009e+00
8	TAO070136	111.7069	112.6349	112.1504	2.1568e-01	1.9012e+00
9	TAO080136	113.6934	114.5131	113.9998	1.8467e-01	1.9013e+00
10	TAO090136	115.0434	115.9657	115.5579	1.7758e-01	1.9014e+00
11	TAO100136	111.7591	112.4799	112.0703	1.7081e-01	1.9012e+00
12	TAO105136	113.8679	114.5877	114.2237	1.7409e-01	1.9013e+00
13	TAO110136	115.2676	116.0850	115.7306	1.6547e-01	1.9014e+00
14	TAO115136	113.7070	114.7370	114.2940	2.1340e-01	1.9013e+00
15	TAO120136	118.5838	119.1962	118.8925	1.5099e-01	1.9016e+00
16	TAO125136	114.6897	115.3051	114.9873	1.6483e-01	1.9014e+00
17	TAO130136	114.0808	114.7968	114.4953	1.4812e-01	1.9013e+00
18	TAO120048	118.4194	119.3400	118.8431	1.7906e-01	1.9016e+00
19	TAO130048	115.3641	116.0824	115.6498	1.4694e-01	1.9014e+00
20	TAO120224	117.7217	118.4388	118.1660	1.6377e-01	1.9016e+00
21	TAO130224	113.0999	114.0217	113.5648	1.6596e-01	1.9013e+00
22	TAO120312	117.0900	118.1155	117.5350	2.1188e-01	1.9015e+00
23	TAO130312	117.4342	118.3551	117.8782	1.7131e-01	1.9015e+00
24	TRT020000	105.0693	105.7957	105.5070	1.8300e-01	1.9008e+00
25	TRT070000	111.8407	112.5652	112.1654	1.6291e-01	1.9012e+00
26	TRT100000	119.5986	120.4162	120.0419	1.8763e-01	1.9017e+00
27	TRT120000	116.7349	117.3502	117.0813	1.4634e-01	1.9015e+00
28	TRT125000	120.0517	120.8670	120.4975	1.8395e-01	1.9017e+00
29	TRT130000	118.7375	119.4535	119.0708	1.7264e-01	1.9016e+00
30	EMPTY	39.1464	40.0646	39.5597	2.0741e-01	1.9011e+00
31	TAF050136	92.5227	93.3576	92.9629	1.7679e-01	1.9004e+00
32	TAF070136	95.5655	96.6042	96.1536	2.1669e-01	1.9005e+00
33	TAF080136	113.9381	114.7571	114.2881	1.6175e-01	1.9013e+00
34	TAF090136	98.7675	100.3240	99.5299	3.1418e-01	1.9006e+00
35	TAF100136	99.0335	99.8666	99.4980	1.7371e-01	1.9006e+00
36	TAF105136	99.7503	100.7843	100.2690	2.4109e-01	1.9006e+00
37	TAF110136	104.1900	104.9140	104.5642	1.8191e-01	1.9008e+00
38	TAF115136	101.7238	102.6573	102.1741	2.0581e-01	1.9007e+00
39	TAF120136	107.8483	108.4674	108.1398	1.3944e-01	1.9010e+00
40	TAF125136	103.1689	104.3049	103.6712	2.8170e-01	1.9008e+00
41	TAF130136	103.8512	104.7828	104.4534	1.7074e-01	1.9008e+00
42	TAF120048	103.5305	104.4678	103.8956	2.0732e-01	1.9008e+00
43	TAF130048	104.6757	105.5032	104.9881	1.7427e-01	1.9008e+00
44	TAF120224	103.2222	104.0510	103.6307	1.9342e-01	1.9008e+00
45	TAF130224	103.9290	104.7599	104.2676	1.6230e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0250	2.0056e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2567	1.1589e-01	1.9010e+00
48	TAI130138	114.1622	115.2915	114.7762	3.1273e-01	1.9014e+00
49	TAI130226	112.5043	113.2240	112.8765	1.8073e-01	1.9012e+00
50	TAI130314	114.5252	115.7599	115.2025	2.9780e-01	1.9014e+00
51	TAI130042	112.3549	113.1783	112.7357	2.0715e-01	1.9012e+00
52	TRR130090	122.1187	125.9801	124.3530	1.1888e+00	1.9020e+00
53	TSI000001	45.9765	46.7351	46.3479	1.7406e-01	1.9004e+00
54	TSI000002	108.7207	111.2870	110.0291	6.4120e-01	1.9011e+00
55	TSO000001	44.9151	45.8957	45.5014	2.3066e-01	1.9004e+00
56	TSO000002	51.3150	52.1781	51.6973	2.1615e-01	1.9002e+00
57	TAF020136	86.2299	86.9668	86.5773	1.8695e-01	1.9002e+00
58	TAF120312	102.8628	103.8974	103.3572	2.8957e-01	1.9007e+00
59	TAF130312	106.4097	107.2355	106.7873	1.8021e-01	1.9009e+00
60	EMPTY	0.9766	0.9814	0.9772	1.7115e-03	0.0000e+00
61	EMPTY	0.9863	0.9912	0.9897	2.2603e-03	0.0000e+00
62	EMPTY	0.9961	1.0059	1.0003	1.9754e-03	0.0000e+00
63	EMPTY	1.0107	1.0156	1.0123	2.3008e-03	0.0000e+00
64	EMPTY	0.5664	0.5713	0.5712	6.9053e-04	0.0000e+00
65	EMPTY	0.5859	0.5908	0.5907	6.9053e-04	0.0000e+00
66	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
67	EMPTY	0.6201	0.6250	0.6211	1.9730e-03	0.0000e+00
68	EMPTY	0.6348	0.6396	0.6350	9.6655e-04	0.0000e+00
69	EMPTY	0.6494	0.6543	0.6539	1.3381e-03	0.0000e+00
70	EMPTY	0.6641	0.6689	0.6687	9.6655e-04	0.0000e+00
71	EMPTY	0.6885	0.6934	0.6890	1.4797e-03	0.0000e+00
72	EMPTY	0.7031	0.7031	0.7031	0.0000e+00	0.0000e+00
73	EMPTY	0.7178	0.7227	0.7218	1.8950e-03	0.0000e+00
74	EMPTY	0.7324	0.7373	0.7367	1.6028e-03	0.0000e+00
75	EMPTY	0.7520	0.7520	0.7520	0.0000e+00	0.0000e+00
76	EMPTY	0.7666	0.7666	0.7666	0.0000e+00	0.0000e+00
77	EMPTY	0.7813	0.7861	0.7855	1.6028e-03	0.0000e+00
78	EMPTY	0.8057	0.8105	0.8058	6.9053e-04	0.0000e+00
79	EMPTY	0.8252	0.8301	0.8254	9.6655e-04	0.0000e+00
80	PAN020136	62.7108	66.2203	64.2870	8.8136e-01	8.8472e-01
81	PAN050136	116.3590	117.8849	117.1036	3.4000e-01	1.7053e+00
82	PAN070136	82.8072	83.9516	83.2741	2.5637e-01	8.9456e-01
83	PAN080136	42.1981	42.7321	42.4972	1.4852e-01	8.7646e-01
84	PAN090136	36.8634	37.6263	37.2189	1.7412e-01	8.7496e-01
85	PAN100136	39.6773	40.2877	40.0024	1.5399e-01	8.7573e-01
86	PAN105136	19.3501	19.8841	19.7041	1.1916e-01	8.7139e-01
87	PAN110136	22.9066	23.5932	23.2850	1.4538e-01	8.7195e-01
88	PAN115136	20.0221	20.5561	20.2281	1.3635e-01	8.7147e-01
89	PAN120136	15.9639	16.2690	16.1241	7.1054e-02	8.7093e-01
90	PAN125136	22.2111	22.6689	22.4034	1.1559e-01	8.7180e-01
91	PAN130136	20.7103	21.1680	20.9086	1.0790e-01	8.7157e-01
92	PAN120048	45.8851	46.4955	46.1933	1.4619e-01	8.7763e-01
93	PAN130048	37.1186	37.7290	37.4238	1.2804e-01	8.7502e-01
94	PAN120224	36.1517	36.7621	36.4905	1.4717e-01	8.7477e-01
95	PAN130224	40.1923	40.7264	40.4441	1.3102e-01	8.7586e-01
96	PAN120312	40.5195	41.4351	41.0200	1.9138e-01	8.7602e-01
97	PAN130312	42.8979	43.5846	43.2153	1.3988e-01	8.7668e-01
98	PAB000136	59.7406	60.2442	59.9677	1.2337e-01	5.9906e-01
99	PAB100136	45.8387	46.1591	45.9962	9.0216e-02	5.9129e-01
100	PAB125136	42.2232	42.5436	42.3458	8.5485e-02	5.8958e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.3987	60.1312	59.7258	1.7859e-01	7.6472e-01
102	PRV0000001	19.5075	19.6296	19.5539	5.9853e-02	7.5159e-01
103	PSR0000001	38.9685	39.2127	39.0906	7.3986e-02	7.5634e-01
104	PFM0000001	103.0813	105.0039	104.1232	4.2898e-01	5.6370e-01
105	PAN000136	505.5383	514.2358	509.9694	1.7800e+00	5.0825e+00
106	PFM0000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0049	0.0098	0.0093	1.4797e-03	0.0000e+00
108	EMPTY	-9.1211	-8.4863	-8.8217	1.3629e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0090	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0008	1.8082e-03	0.0000e+00
112	VPW0000001	101.7728	102.3588	102.0736	1.6370e-01	1.0155e+00
113	VPW0000002	119.1369	119.7228	119.5392	1.5490e-01	1.0819e+00
114	VPW0000003	147.0928	148.0694	147.6006	1.8508e-01	1.2002e+00
115	VPW0000004	104.7927	105.5739	105.1091	1.8462e-01	1.0266e+00
116	VPW0000005	139.4193	140.3959	139.7085	1.8609e-01	1.1657e+00
117	VPW0000006	146.2365	147.0177	146.5763	1.8846e-01	1.1956e+00
118	IPW0000001	561.1486	568.9580	565.6000	1.6753e+00	9.2507e+00
119	IPW0000002	1290.2395	1298.0446	1294.8442	1.6139e+00	1.3048e+01
120	IPW0000003	1314.7500	1322.5499	1319.6246	2.0565e+00	1.3202e+01
121	IPW0000004	382.8970	386.3150	384.5670	7.7103e-01	3.6373e+00
122	IPW0000005	254.4067	256.8478	255.2171	4.7928e-01	2.8399e+00
123	IPW0000006	266.4514	268.4045	267.4083	4.5163e-01	2.9091e+00
124	EMPTY	-0.0293	-0.0146	-0.0220	3.3087e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.9330e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	3.0819e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.7186e-03	0.0000e+00
128	IHT0000001	132.0838	134.4276	133.1776	5.0839e-01	4.3109e+00
129	IHT0000002	132.6510	134.9947	133.6705	5.0268e-01	4.3124e+00
130	IHT0000003	131.6106	133.7590	132.7082	4.7168e-01	4.3094e+00
131	IHT0000004	132.4895	134.2473	133.4308	4.6637e-01	4.3117e+00
132	IHT0000005	129.8678	131.8209	130.8716	4.8810e-01	4.3038e+00
133	IHT0000006	126.1043	128.2527	127.0145	4.7615e-01	4.2922e+00
134	IHT0000007	130.6077	132.7561	131.4671	4.8004e-01	4.3056e+00
135	IHT0000008	130.6303	133.1693	131.6303	4.9069e-01	4.3061e+00
136	IHT0000009	131.6782	134.2172	132.5688	5.1169e-01	4.3090e+00
137	IHT0000010	130.3072	132.6510	131.5689	5.4134e-01	4.3059e+00
138	IHT0000011	134.3450	137.2746	135.8605	6.0946e-01	4.3192e+00
139	IHT0000012	127.8545	130.9796	129.7022	6.1411e-01	4.3003e+00
140	IHT0000013	91.6617	94.3960	93.1382	5.8014e-01	4.2045e+00
141	IHT0000014	127.6179	130.7429	129.2625	6.0758e-01	4.2989e+00
142	IHT0000015	95.5191	98.2535	97.0933	5.6139e-01	4.2134e+00
143	IHT0000016	88.6193	91.1583	90.2013	5.1486e-01	4.1981e+00
144	IHT0000017	105.2434	107.7825	106.6535	5.2391e-01	4.2364e+00
145	IHT0000018	107.6435	110.1825	109.2998	4.8043e-01	4.2432e+00
146	IHT0000019	103.7447	106.0885	104.9126	5.2123e-01	4.2321e+00
147	IHT0000020	106.8059	108.9543	107.9699	5.7040e-01	4.2398e+00
148	IHT0000021	-3.1663	-0.0413	-1.6702	6.7958e-01	4.1000e+00
149	IHT0000022	92.9349	95.4740	93.8842	5.8128e-01	4.2061e+00
150	IHT0000023	106.5730	108.9168	107.3153	5.5664e-01	4.2381e+00
151	IHT0000024	71.6984	74.0422	72.5188	5.3233e-01	4.1636e+00
152	IHT0000025	103.8687	106.2125	104.5757	5.5227e-01	4.2313e+00
153	IHT0000026	105.6565	108.0003	106.4769	5.7318e-01	4.2360e+00
154	IHT0000027	90.2193	92.7584	91.1880	6.1252e-01	4.2002e+00
155	IHT0000028	91.9096	94.4486	93.0971	6.0340e-01	4.2044e+00

Test: May07_01

sum2

Date: Mon May 7 12:04:38 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4312	107.7749	106.6421	5.8127e-01	4.2364e+00
157	IHT000030	107.4482	110.3778	108.8701	6.2644e-01	4.2421e+00
158	IHT000031	106.5279	108.8717	107.8130	5.7465e-01	4.2394e+00
159	IHT000032	107.7937	110.1375	109.0906	5.5630e-01	4.2426e+00
160	IHT000033	107.7787	110.1225	109.0366	5.7475e-01	4.2425e+00
161	IHT000034	94.5425	96.3003	95.3159	4.3933e-01	4.2093e+00
162	IHT000035	124.5906	126.5437	125.5672	4.7021e-01	4.2880e+00
163	IHT000036	92.9913	94.7491	93.8623	4.1425e-01	4.2061e+00

Test: May07_01 dif Date: Mon May 7 12:04:38 1990 Page: 1

Velocity 1 = 0.032799 (ft/sec)

Velocity 2 = 0.000401 (ft/sec)

Pressure Drop = 0.035000 (psi)

Tsat in = 0.066803 (deg F) Tsat out = 0.050598 (deg F)

Phi inner = 1.384102 (kBtu/hr-ft2) Phi outer = 0.642899 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0809	0.1102
1	TRF000002	0.1186	0.1617
2	TFM000001	0.4335	0.5029
3	TIN000001	0.4397	0.5137
4	TRV000001	0.3444	0.4020
5	TSR000001	1.1151	1.0761
6	TAO020136	0.4368	0.4069
7	TAO050136	0.4454	0.4146
8	TAO070136	0.3695	0.3284
9	TAO080136	0.4912	0.4290
10	TAO090136	0.4930	0.4248
11	TAO100136	0.5278	0.4687
12	TAO105136	0.4710	0.4107
13	TAO110136	0.4643	0.3996
14	TAO115136	0.4760	0.4147
15	TAO120136	0.4800	0.4021
16	TAO125136	0.5380	0.4657
17	TAO130136	0.4896	0.4258
18	TAO120048	0.5168	0.4330
19	TAO130048	0.5043	0.4342
20	TAO120224	0.4932	0.4156
21	TAO130224	0.5187	0.4547
22	TAO120312	0.5065	0.4291
23	TAO130312	0.5040	0.4257
24	TRT020000	0.5129	0.4838
25	TRT070000	0.4956	0.4399
26	TRT100000	0.5443	0.4514
27	TRT120000	0.5137	0.4368
28	TRT125000	0.5084	0.4201
29	TRT130000	0.5240	0.4381
30	EMPTY	0.0137	0.0346
31	TAF050136	0.5221	0.5585
32	TAF070136	0.5528	0.5716
33	TAF080136	0.5187	0.4518
34	TAF090136	0.4291	0.4293
35	TAF100136	0.5023	0.5023
36	TAF105136	0.5366	0.5323
37	TAF110136	0.5292	0.5035
38	TAF115136	0.5071	0.4939
39	TAF120136	0.5241	0.4823
40	TAF125136	0.5816	0.5579
41	TAF130136	0.4974	0.4739
42	TAF120048	0.6535	0.6251
43	TAF130048	0.5305	0.5028
44	TAF120224	0.4655	0.4472
45	TAF130224	0.4937	0.4713

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0363
47	EMPTY	0.0551	0.1406
48	TAI130138	0.4739	0.4112
49	TAI130226	0.5132	0.4526
50	TAI130314	0.4675	0.4042
51	TAI130042	0.5287	0.4668
52	TRR130090	0.6399	0.5172
53	TSI000001	0.1317	0.2833
54	TSI000002	0.3801	0.3466
55	TSO000001	0.0855	0.1876
56	TSO000002	0.0926	0.1788
57	TAF020136	0.4709	0.5410
58	TAF120312	0.5427	0.5223
59	TAF130312	0.4960	0.4623
60	EMPTY	0.0159	1.6010
61	EMPTY	0.0144	1.4341
62	EMPTY	0.0149	1.4677
63	EMPTY	0.0162	1.5751
64	EMPTY	0.0059	1.0223
65	EMPTY	0.0068	1.1381
66	EMPTY	0.0071	1.1590
67	EMPTY	0.0089	1.4127
68	EMPTY	0.0086	1.3362
69	EMPTY	0.0054	0.8191
70	EMPTY	0.0052	0.7716
71	EMPTY	0.0091	1.3035
72	EMPTY	0.0055	0.7762
73	EMPTY	0.0059	0.8108
74	EMPTY	0.0056	0.7544
75	EMPTY	0.0057	0.7523
76	EMPTY	0.0053	0.6866
77	EMPTY	0.0055	0.6953
78	EMPTY	0.0068	0.8368
79	EMPTY	0.0096	1.1497
80	PAN020136	0.5570	0.8590
81	PAN050136	0.0549	0.0469
82	PAN070136	0.2014	0.2413
83	PAN080136	0.1175	0.2757
84	PAN090136	0.0137	0.0368
85	PAN100136	0.0686	0.1712
86	PAN105136	0.0503	0.2546
87	PAN110136	0.0259	0.1111
88	PAN115136	0.0168	0.0831
89	PAN120136	0.0946	0.5833
90	PAN125136	0.0275	0.1229
91	PAN130136	0.0458	0.2186
92	PAN120048	0.0382	0.0826
93	PAN130048	0.0534	0.1425
94	PAN120224	0.0320	0.0876
95	PAN130224	0.0366	0.0904
96	PAN120312	0.1556	0.3808
97	PAN130312	0.1877	0.4325
98	PAB000136	0.0604	0.1006
99	PAB100136	0.0220	0.0478
100	PAB125136	0.0357	0.0842

Test: May07_01

dif

Date: Mon May 7 12:04:38 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.2051	0.3422
102	PRV000001	0.0049	0.0251
103	PSR000001	0.0342	0.0874
104	PFM000001	0.2563	0.2455
105	PAN000136	0.9705	0.1899
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.1978
108	EMPTY	0.0870	0.9960
109	EMPTY	0.0007	8.4337
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	100.0000
112	VPW000001	0.1015	0.0993
113	VPW000002	0.0274	0.0229
114	VPW000003	0.0625	0.0424
115	VPW000004	0.1562	0.1484
116	VPW000005	0.1601	0.1145
117	VPW000006	0.0117	0.0080
118	IPW000001	17.8444	3.2577
119	IPW000002	29.5819	2.2336
120	IPW000003	20.5139	1.5307
121	IPW000004	1.4453	0.3772
122	IPW000005	1.0447	0.4077
123	IPW000006	1.8652	0.6927
124	EMPTY	0.0014	5.9829
125	EMPTY	0.0003	2.0548
126	EMPTY	0.0017	8.7180
127	EMPTY	0.0008	4.9689
128	IHT000001	0.1484	0.1113
129	IHT000002	0.1328	0.0992
130	IHT000003	0.1211	0.0912
131	IHT000004	0.0469	0.0351
132	IHT000005	0.0977	0.0746
133	IHT000006	0.0156	0.0123
134	IHT000007	0.0547	0.0416
135	IHT000008	0.0039	0.0030
136	IHT000009	0.0196	0.0148
137	IHT000010	0.1289	0.0981
138	IHT000011	0.0937	0.0690
139	IHT000012	0.0625	0.0482
140	IHT000013	0.1133	0.1215
141	IHT000014	0.0938	0.0725
142	IHT000015	0.0937	0.0964
143	IHT000016	0.0469	0.0520
144	IHT000017	0.1914	0.1791
145	IHT000018	0.0820	0.0750
146	IHT000019	0.1211	0.1153
147	IHT000020	0.1016	0.0940
148	IHT000021	0.0039	0.2330
149	IHT000022	0.1250	0.1330
150	IHT000023	0.0351	0.0327
151	IHT000024	0.0390	0.0538
152	IHT000025	0.0195	0.0187
153	IHT000026	0.0078	0.0073
154	IHT000027	0.0821	0.0900
155	IHT000028	0.0899	0.0965

Test: May07_01 dif Date: Mon May 7 12:04:38 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0117	0.0110
157	IHT000030	0.0117	0.0108
158	IHT000031	0.0390	0.0362
159	IHT000032	0.0234	0.0215
160	IHT000033	0.0469	0.0430
161	IHT000034	0.0860	0.0901
162	IHT000035	0.0977	0.0777
163	IHT000036	0.1133	0.1206

Test: May07_02

sum1

Date: Mon May 7 13:14:13 1990

Page: 1

Velocity 1 = 19.7837 (ft/sec) (+/- 1.7225 %)
Velocity 2 = 13.4296 (ft/sec) (+/- 1.7031 %)
Pressure drop = 8.9287 (psi)
Tsat in = 292.5740 (deg F) Tsat out = 282.6700 (deg F)
Phi inner = 102.3051 (kBtu/hr-ft2) (+/- 1.4082 %)
Phi outer = 101.3479 (kBtu/hr-ft2) (+/- 1.6178 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1181	74.9688	74.5392	1.8476e-01	1.9000e+00
1	TRF000002	74.2095	74.6326	74.4761	1.2685e-01	1.9000e+00
2	TFM000001	87.2882	88.1263	87.7324	2.0242e-01	1.9002e+00
3	TIN000001	86.7177	87.5578	87.1041	1.6767e-01	1.9002e+00
4	TRV000001	86.5014	87.6511	87.1616	2.4759e-01	1.9002e+00
5	TSR000001	103.9477	105.0829	104.5210	2.7649e-01	1.9008e+00
6	TAO020136	113.4134	114.2372	113.8914	2.3219e-01	1.9013e+00
7	TAO050136	114.2967	115.0137	114.6245	1.7077e-01	1.9013e+00
8	TAO070136	118.1891	118.9071	118.5011	1.7941e-01	1.9016e+00
9	TAO080136	123.0572	123.8710	123.3673	1.7669e-01	1.9019e+00
10	TAO090136	124.9391	125.6524	125.2450	1.6698e-01	1.9021e+00
11	TAO100136	121.2817	121.8948	121.5227	1.6081e-01	1.9018e+00
12	TAO105136	123.3974	124.2135	123.8258	1.9558e-01	1.9020e+00
13	TAO110136	125.5003	126.2112	125.8170	1.7330e-01	1.9021e+00
14	TAO115136	123.7624	124.7839	124.3142	2.2510e-01	1.9020e+00
15	TAO120136	129.3042	129.9121	129.5442	1.4429e-01	1.9024e+00
16	TAO125136	124.9919	125.8060	125.3580	1.9275e-01	1.9021e+00
17	TAO130136	124.2679	124.9750	124.5911	1.7099e-01	1.9020e+00
18	TAO120048	129.5157	130.1252	129.7959	1.4288e-01	1.9024e+00
19	TAO130048	125.8525	126.5635	126.2343	1.7961e-01	1.9021e+00
20	TAO120224	128.4273	129.2400	128.8702	1.9110e-01	1.9023e+00
21	TAO130224	123.1600	123.7690	123.5011	1.4195e-01	1.9019e+00
22	TAO120312	128.1181	129.0331	128.5371	1.9871e-01	1.9023e+00
23	TAO130312	128.2178	128.8273	128.5310	1.5864e-01	1.9023e+00
24	TRT020000	112.3127	113.1376	112.6883	2.2018e-01	1.9012e+00
25	TRT070000	120.8151	121.6365	121.2953	1.9495e-01	1.9018e+00
26	TRT100000	130.1679	130.8778	130.5206	1.8223e-01	1.9025e+00
27	TRT120000	127.7477	128.4589	128.1459	1.6145e-01	1.9023e+00
28	TRT125000	131.8773	132.8857	132.3214	2.3126e-01	1.9026e+00
29	TRT130000	129.7140	130.3223	130.0829	1.5569e-01	1.9024e+00
30	EMPTY	39.1464	40.0646	39.5781	2.1575e-01	1.9011e+00
31	TAF050136	96.8924	97.6200	97.2666	1.7571e-01	1.9005e+00
32	TAF070136	100.9513	101.7792	101.3489	2.0921e-01	1.9007e+00
33	TAF080136	123.0857	123.7966	123.4430	1.8151e-01	1.9019e+00
34	TAF090136	104.2584	105.6012	104.9234	3.2003e-01	1.9008e+00
35	TAF100136	105.7861	106.4080	106.0062	1.5463e-01	1.9009e+00
36	TAF105136	106.4394	107.4632	106.9928	2.4878e-01	1.9009e+00
37	TAF110136	112.0050	112.7236	112.3829	1.6913e-01	1.9012e+00
38	TAF115136	108.9552	109.6766	109.3710	1.8023e-01	1.9010e+00
39	TAF120136	116.8729	117.4877	117.1030	1.3029e-01	1.9015e+00
40	TAF125136	110.6677	111.8948	111.2947	2.6455e-01	1.9011e+00
41	TAF130136	111.8858	112.7084	112.3220	1.6817e-01	1.9012e+00
42	TAF120048	111.1175	112.0487	111.5523	2.1620e-01	1.9012e+00
43	TAF130048	112.8111	113.6334	113.0912	1.7121e-01	1.9013e+00
44	TAF120224	110.9634	111.7865	111.2477	1.8313e-01	1.9011e+00
45	TAF130224	111.8093	112.7386	112.2432	2.1568e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.0774e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2613	1.1598e-01	1.9010e+00
48	TAI130138	124.5921	125.8138	125.2033	3.3423e-01	1.9021e+00
49	TAI130226	122.8072	123.8239	123.2670	2.0676e-01	1.9019e+00
50	TAI130314	125.0870	126.4137	125.7480	3.1009e-01	1.9021e+00
51	TAI130042	122.6036	123.5223	123.1060	1.8994e-01	1.9019e+00
52	TRR130090	129.8312	131.8536	131.1538	4.0931e-01	1.9025e+00
53	TSI000001	46.4129	47.0639	46.7041	1.5400e-01	1.9004e+00
54	TSI000002	113.6466	114.9774	114.1345	3.2342e-01	1.9013e+00
55	TSO000001	45.2384	46.3275	45.8311	2.2126e-01	1.9004e+00
56	TSO000002	52.2873	53.2589	52.7236	2.0787e-01	1.9002e+00
57	TAF020136	88.8601	89.8062	89.3186	2.0455e-01	1.9003e+00
58	TAF120312	110.3841	111.6177	111.0588	2.6831e-01	1.9011e+00
59	TAF130312	115.2412	116.0614	115.6306	2.0171e-01	1.9014e+00
60	EMPTY	1.1621	1.1670	1.1628	1.7115e-03	0.0000e+00
61	EMPTY	1.1719	1.1768	1.1722	1.1714e-03	0.0000e+00
62	EMPTY	1.1768	1.1865	1.1817	1.2041e-03	0.0000e+00
63	EMPTY	1.1914	1.1963	1.1947	2.3008e-03	0.0000e+00
64	EMPTY	0.6543	0.6543	0.6543	0.0000e+00	0.0000e+00
65	EMPTY	0.6738	0.6787	0.6739	6.9053e-04	0.0000e+00
66	EMPTY	0.6885	0.6934	0.6887	9.6655e-04	0.0000e+00
67	EMPTY	0.7031	0.7080	0.7060	2.4344e-03	0.0000e+00
68	EMPTY	0.7178	0.7178	0.7178	0.0000e+00	0.0000e+00
69	EMPTY	0.7324	0.7373	0.7355	2.3675e-03	0.0000e+00
70	EMPTY	0.7471	0.7520	0.7487	2.3365e-03	0.0000e+00
71	EMPTY	0.7715	0.7715	0.7715	0.0000e+00	0.0000e+00
72	EMPTY	0.7813	0.7861	0.7854	1.7115e-03	0.0000e+00
73	EMPTY	0.8008	0.8057	0.8010	9.6655e-04	0.0000e+00
74	EMPTY	0.8154	0.8203	0.8156	9.6655e-04	0.0000e+00
75	EMPTY	0.8301	0.8350	0.8332	2.3675e-03	0.0000e+00
76	EMPTY	0.8398	0.8496	0.8450	1.5314e-03	0.0000e+00
77	EMPTY	0.8643	0.8643	0.8643	0.0000e+00	0.0000e+00
78	EMPTY	0.8838	0.8936	0.8846	2.0598e-03	0.0000e+00
79	EMPTY	0.9033	0.9082	0.9078	1.3381e-03	0.0000e+00
80	PAN020136	30.5147	33.0324	31.6729	5.4183e-01	8.7360e-01
81	PAN050136	55.7816	57.3075	56.6635	3.2228e-01	1.6860e+00
82	PAN070136	39.7011	40.6166	40.0886	1.8227e-01	8.7575e-01
83	PAN080136	20.6069	21.2172	20.8846	1.5851e-01	8.7157e-01
84	PAN090136	16.7218	17.4084	17.0956	1.6184e-01	8.7105e-01
85	PAN100136	18.9254	19.6883	19.2580	1.4603e-01	8.7133e-01
86	PAN105136	8.5926	9.1267	8.8459	1.3388e-01	8.7028e-01
87	PAN110136	11.8440	12.5306	12.1797	1.5023e-01	8.7053e-01
88	PAN115136	9.6461	10.4853	9.9696	1.4749e-01	8.7036e-01
89	PAN120136	6.8086	7.4189	7.1428	1.1626e-01	8.7018e-01
90	PAN125136	10.9196	11.3011	11.1638	1.0224e-01	8.7045e-01
91	PAN130136	9.8765	10.4106	10.2046	1.2258e-01	8.7037e-01
92	PAN120048	22.6155	23.3021	22.9298	1.4675e-01	8.7189e-01
93	PAN130048	16.5956	17.3585	16.9648	1.4571e-01	8.7103e-01
94	PAN120224	16.3153	16.9257	16.5945	1.2674e-01	8.7099e-01
95	PAN130224	19.8981	20.7374	20.2964	1.6764e-01	8.7148e-01
96	PAN120312	20.6068	21.1409	20.8937	1.1896e-01	8.7157e-01
97	PAN130312	20.3149	21.0016	20.7117	1.4704e-01	8.7154e-01
98	PAB000136	59.7406	60.1984	59.9686	1.0194e-01	5.9906e-01
99	PAB100136	53.0714	53.2545	53.1455	4.5203e-02	5.9502e-01
100	PAB125136	51.3327	51.5158	51.4260	4.6204e-02	5.9408e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.5208	60.3753	59.9114	1.8290e-01	7.6481e-01
102	PRV0000001	19.5075	19.6296	19.5563	6.0409e-02	7.5159e-01
103	PSR0000001	49.5886	49.8328	49.6936	4.9385e-02	7.6022e-01
104	PFM0000001	59.6853	60.6924	60.2255	2.4416e-01	5.2218e-01
105	PAN000136	242.7819	251.9372	247.1947	2.0066e+00	4.9587e+00
106	PFM0000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0049	0.0098	0.0063	2.2603e-03	0.0000e+00
108	EMPTY	-9.7754	-9.1211	-9.5754	1.4895e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0060	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	100.2103	100.7963	100.4759	1.4095e-01	1.0097e+00
113	VPW0000002	119.3322	119.7228	119.5353	1.1811e-01	1.0819e+00
114	VPW0000003	147.2881	147.8741	147.5381	1.5303e-01	1.1999e+00
115	VPW0000004	104.9880	105.3786	105.2302	1.2200e-01	1.0270e+00
116	VPW0000005	139.6146	140.2006	139.8374	1.1844e-01	1.1662e+00
117	VPW0000006	146.2365	146.8224	146.5450	1.2534e-01	1.1955e+00
118	IPW0000001	529.9111	541.6252	536.3538	3.3758e+00	9.1413e+00
119	IPW0000002	1321.4598	1331.2162	1325.5966	2.0725e+00	1.3239e+01
120	IPW0000003	1338.1499	1347.8999	1343.0251	2.9547e+00	1.3348e+01
121	IPW0000004	381.4322	383.8736	382.5846	5.0068e-01	3.6242e+00
122	IPW0000005	254.8949	256.3596	255.8030	3.8215e-01	2.8432e+00
123	IPW0000006	268.4045	269.8693	269.0782	4.1725e-01	2.9187e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.5786e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	3.1211e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	3.9998e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.6165e-03	0.0000e+00
128	IHT0000001	132.2791	134.6229	133.2089	5.3751e-01	4.3110e+00
129	IHT0000002	132.6510	134.9947	133.7330	5.3845e-01	4.3126e+00
130	IHT0000003	131.8059	133.9543	132.9308	5.2134e-01	4.3101e+00
131	IHT0000004	132.4895	135.0285	133.5363	5.7421e-01	4.3120e+00
132	IHT0000005	129.8678	132.2115	131.0748	5.5058e-01	4.3044e+00
133	IHT0000006	125.9089	128.4480	127.1473	5.5888e-01	4.2926e+00
134	IHT0000007	130.6077	132.7561	131.7406	5.5524e-01	4.3065e+00
135	IHT0000008	130.6303	132.7787	131.8725	5.3198e-01	4.3069e+00
136	IHT0000009	131.6782	133.6313	132.6743	5.2386e-01	4.3093e+00
137	IHT0000010	130.5025	132.8463	131.6392	4.8599e-01	4.3061e+00
138	IHT0000011	134.9309	136.6887	135.7863	4.6503e-01	4.3190e+00
139	IHT0000012	128.6358	130.7842	129.6162	4.7759e-01	4.3000e+00
140	IHT0000013	92.4429	94.0054	93.2398	4.1916e-01	4.2047e+00
141	IHT0000014	128.7898	130.3523	129.4930	3.9459e-01	4.2996e+00
142	IHT0000015	96.4957	98.0582	97.2183	3.4681e-01	4.2137e+00
143	IHT0000016	88.0333	89.5958	88.7678	3.7550e-01	4.1950e+00
144	IHT0000017	106.2200	108.9543	107.5012	7.0273e-01	4.2386e+00
145	IHT0000018	108.2294	110.5732	109.4638	4.2579e-01	4.2436e+00
146	IHT0000019	104.1353	106.4791	105.1705	5.0262e-01	4.2327e+00
147	IHT0000020	107.0012	109.1497	108.0129	5.2599e-01	4.2399e+00
148	IHT0000021	-2.9710	-0.2366	-1.4827	6.3490e-01	4.1000e+00
149	IHT0000022	91.3724	93.5209	92.4155	5.0780e-01	4.2029e+00
150	IHT0000023	106.3777	108.3308	107.3856	4.5053e-01	4.2383e+00
151	IHT0000024	71.3078	73.6516	72.5110	4.2747e-01	4.1636e+00
152	IHT0000025	103.8687	106.0171	104.8062	4.1007e-01	4.2318e+00
153	IHT0000026	105.8519	107.6097	106.6878	3.8061e-01	4.2365e+00
154	IHT0000027	89.0475	90.8053	89.8521	4.0557e-01	4.1973e+00
155	IHT0000028	90.7377	93.2768	91.7495	5.4203e-01	4.2014e+00

Test: May07_02

sum1

Date: Mon May 7 13:14:13 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0171	108.1656	106.8296	5.5574e-01	4.2369e+00
157	IHT000030	108.2294	110.5732	109.0263	5.6612e-01	4.2425e+00
158	IHT000031	106.9186	108.8717	107.8521	5.2392e-01	4.2395e+00
159	IHT000032	108.1843	110.5281	109.2156	5.4253e-01	4.2430e+00
160	IHT000033	108.1693	110.5131	109.1460	5.3815e-01	4.2428e+00
161	IHT000034	94.7378	96.3003	95.4605	4.2177e-01	4.2097e+00
162	IHT000035	124.7859	126.3484	125.7157	4.1302e-01	4.2884e+00
163	IHT000036	93.3819	94.7491	94.0186	3.8825e-01	4.2064e+00

Test: May07_02

sum2

Date: Mon May 7 13:14:13 1990

Page: 1

Velocity 1 = 19.7663 (ft/sec) (+/- 1.7226 %)
Velocity 2 = 13.4296 (ft/sec) (+/- 1.7031 %)
Pressure drop = 8.9161 (psi)
Tsat in = 292.6559 (deg F) Tsat out = 282.7860 (deg F)
Phi inner = 101.9103 (kBtu/hr-ft2) (+/- 1.4093 %)
Phi outer = 100.7697 (kBtu/hr-ft2) (+/- 1.6193 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3308	74.9688	74.6158	1.9026e-01	1.9000e+00
1	TRF000002	74.4210	74.8440	74.5311	1.2267e-01	1.9000e+00
2	TFM000001	87.1835	88.1263	87.7431	2.5708e-01	1.9002e+00
3	TIN000001	86.6124	87.4531	87.0558	2.0718e-01	1.9002e+00
4	TRV000001	86.8144	87.6511	87.2017	1.8700e-01	1.9002e+00
5	TSR000001	104.3603	105.1851	104.7376	1.9065e-01	1.9008e+00
6	TAO020136	113.3108	114.3394	113.8316	2.6327e-01	1.9013e+00
7	TAO050136	114.0923	115.1167	114.5125	2.1132e-01	1.9013e+00
8	TAO070136	118.1886	118.8050	118.5235	2.0179e-01	1.9016e+00
9	TAO080136	122.7542	123.6685	123.2482	1.7917e-01	1.9019e+00
10	TAO090136	124.7370	125.6519	125.1376	1.8645e-01	1.9020e+00
11	TAO100136	121.0777	121.7924	121.4189	1.5925e-01	1.9018e+00
12	TAO105136	123.1930	124.1117	123.6359	2.0583e-01	1.9019e+00
13	TAO110136	125.4002	126.0097	125.6504	1.5506e-01	1.9021e+00
14	TAO115136	123.5579	124.6817	124.1608	2.4784e-01	1.9020e+00
15	TAO120136	129.0034	129.6114	129.3374	1.7135e-01	1.9024e+00
16	TAO125136	124.7899	125.6029	125.1938	1.7502e-01	1.9021e+00
17	TAO130136	124.0674	124.6762	124.4297	1.6138e-01	1.9020e+00
18	TAO120048	129.2117	130.0238	129.5306	1.9452e-01	1.9024e+00
19	TAO130048	125.6497	126.2603	125.9367	1.8106e-01	1.9021e+00
20	TAO120224	128.4273	129.2402	128.7667	2.0886e-01	1.9023e+00
21	TAO130224	122.9577	123.7708	123.3257	1.8927e-01	1.9019e+00
22	TAO120312	127.8132	128.7284	128.2463	2.1233e-01	1.9023e+00
23	TAO130312	127.9146	128.6248	128.2538	1.6612e-01	1.9023e+00
24	TRT020000	111.8997	112.8275	112.3929	2.0338e-01	1.9012e+00
25	TRT070000	120.5056	121.2252	120.9267	1.9250e-01	1.9017e+00
26	TRT100000	129.6625	130.5738	130.0979	2.0494e-01	1.9024e+00
27	TRT120000	127.3415	128.0529	127.7339	1.8599e-01	1.9022e+00
28	TRT125000	131.4761	132.3837	131.9137	1.9521e-01	1.9026e+00
29	TRT130000	129.3094	130.0195	129.6805	1.8282e-01	1.9024e+00
30	EMPTY	39.1464	40.0646	39.5505	2.1535e-01	1.9011e+00
31	TAF050136	96.7893	97.5170	97.1320	1.7854e-01	1.9005e+00
32	TAF070136	100.8483	101.6769	101.2440	2.2663e-01	1.9007e+00
33	TAF080136	122.9856	123.7966	123.3081	1.6889e-01	1.9019e+00
34	TAF090136	104.1551	105.2915	104.7398	2.8440e-01	1.9008e+00
35	TAF100136	105.4756	106.3044	105.9087	1.9143e-01	1.9009e+00
36	TAF105136	106.4388	107.3626	106.8930	2.3283e-01	1.9009e+00
37	TAF110136	112.0059	112.5197	112.2869	1.4202e-01	1.9012e+00
38	TAF115136	108.8517	109.6756	109.2374	1.9615e-01	1.9010e+00
39	TAF120136	116.7714	117.1820	116.9582	1.2381e-01	1.9015e+00
40	TAF125136	110.5664	111.8977	111.2441	2.6406e-01	1.9011e+00
41	TAF130136	111.9890	112.6063	112.2545	1.7631e-01	1.9012e+00
42	TAF120048	111.0128	111.7388	111.3839	2.1531e-01	1.9012e+00
43	TAF130048	112.6069	113.3261	112.9662	1.6642e-01	1.9012e+00
44	TAF120224	110.8604	111.5816	111.1593	1.8164e-01	1.9011e+00
45	TAF130224	111.6024	112.6350	112.1581	1.9221e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	1.9045e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2980	1.2798e-01	1.9010e+00
48	TAI130138	124.5929	125.6110	125.0995	2.7940e-01	1.9020e+00
49	TAI130226	122.8072	123.6219	123.1597	2.1681e-01	1.9019e+00
50	TAI130314	124.8822	126.3111	125.5580	3.2404e-01	1.9021e+00
51	TAI130042	122.5018	123.4206	122.9406	2.3172e-01	1.9019e+00
52	TRR130090	131.7532	133.7708	132.8240	4.7829e-01	1.9027e+00
53	TSI000001	46.5217	47.0639	46.7974	1.2998e-01	1.9004e+00
54	TSI000002	112.4181	114.3647	112.9658	4.3310e-01	1.9012e+00
55	TSO000001	45.3473	46.4357	45.8985	2.2907e-01	1.9004e+00
56	TSO000002	52.2888	53.0435	52.7173	1.9297e-01	1.9002e+00
57	TAF020136	88.9652	89.7008	89.3331	1.7540e-01	1.9003e+00
58	TAF120312	110.2820	111.3106	110.9051	2.6944e-01	1.9011e+00
59	TAF130312	115.0366	115.8569	115.4283	1.7535e-01	1.9014e+00
60	EMPTY	1.1523	1.1621	1.1570	1.3811e-03	0.0000e+00
61	EMPTY	1.1621	1.1719	1.1670	9.8648e-04	0.0000e+00
62	EMPTY	1.1719	1.1768	1.1762	1.6028e-03	0.0000e+00
63	EMPTY	1.1865	1.1914	1.1866	6.9053e-04	0.0000e+00
64	EMPTY	0.6494	0.6543	0.6511	2.3365e-03	0.0000e+00
65	EMPTY	0.6689	0.6738	0.6707	2.3675e-03	0.0000e+00
66	EMPTY	0.6836	0.6934	0.6861	2.6543e-03	0.0000e+00
67	EMPTY	0.6982	0.7031	0.7030	6.9053e-04	0.0000e+00
68	EMPTY	0.7129	0.7178	0.7146	2.3675e-03	0.0000e+00
69	EMPTY	0.7324	0.7324	0.7324	0.0000e+00	0.0000e+00
70	EMPTY	0.7471	0.7471	0.7471	0.0000e+00	0.0000e+00
71	EMPTY	0.7666	0.7715	0.7673	1.7115e-03	0.0000e+00
72	EMPTY	0.7764	0.7813	0.7812	6.9053e-04	0.0000e+00
73	EMPTY	0.7959	0.8008	0.8004	1.3381e-03	0.0000e+00
74	EMPTY	0.8105	0.8154	0.8137	2.3675e-03	0.0000e+00
75	EMPTY	0.8252	0.8301	0.8300	6.9053e-04	0.0000e+00
76	EMPTY	0.8398	0.8447	0.8438	1.8950e-03	0.0000e+00
77	EMPTY	0.8594	0.8643	0.8600	1.6028e-03	0.0000e+00
78	EMPTY	0.8740	0.8838	0.8832	1.8821e-03	0.0000e+00
79	EMPTY	0.9033	0.9033	0.9033	0.0000e+00	0.0000e+00
80	PAN020136	30.3621	33.7954	31.8880	8.0654e-01	8.7364e-01
81	PAN050136	55.7816	57.3075	56.5537	3.2098e-01	1.6859e+00
82	PAN070136	39.3959	40.3877	39.8201	2.5335e-01	8.7568e-01
83	PAN080136	20.4543	21.2935	20.8266	1.5992e-01	8.7156e-01
84	PAN090136	16.7980	17.4084	17.0422	1.3700e-01	8.7104e-01
85	PAN100136	18.9254	19.6120	19.2062	1.5293e-01	8.7132e-01
86	PAN105136	8.4400	8.8978	8.6094	1.1968e-01	8.7027e-01
87	PAN110136	11.9202	12.6832	12.3124	1.5644e-01	8.7054e-01
88	PAN115136	9.6461	10.4090	9.9558	1.6123e-01	8.7036e-01
89	PAN120136	6.8849	7.3427	7.1153	1.0843e-01	8.7018e-01
90	PAN125136	10.8433	11.3774	11.1210	1.2211e-01	8.7044e-01
91	PAN130136	10.0291	10.4869	10.2046	1.2734e-01	8.7037e-01
92	PAN120048	22.6155	23.2258	22.9069	1.4999e-01	8.7188e-01
93	PAN130048	16.6719	17.2822	16.8885	1.4324e-01	8.7102e-01
94	PAN120224	16.2390	17.0020	16.6418	1.5262e-01	8.7099e-01
95	PAN130224	19.6693	20.5085	20.1057	2.1581e-01	8.7145e-01
96	PAN120312	20.5305	21.2934	20.8937	1.4257e-01	8.7157e-01
97	PAN130312	20.3912	20.9253	20.6445	1.2752e-01	8.7153e-01
98	PAB000136	59.7406	60.3357	60.0428	1.3686e-01	5.9911e-01
99	PAB100136	53.0256	53.3918	53.2325	9.7102e-02	5.9507e-01
100	PAB125136	51.3784	51.6073	51.5213	6.4499e-02	5.9413e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	59.3987	60.3753	59.9236	2.1535e-01	7.6482e-01
102	PRV0000001	19.5075	19.7517	19.6223	3.8286e-02	7.5160e-01
103	PSR0000001	49.7107	49.9548	49.7986	6.9929e-02	7.6026e-01
104	PFM0000001	59.4107	60.7839	60.1193	4.1227e-01	5.2210e-01
105	PAN000136	241.4086	252.8527	246.8468	2.2533e+00	4.9586e+00
106	PFM0000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3008e-03	0.0000e+00
108	EMPTY	-9.7852	-9.1211	-9.6192	1.5137e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0076	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPW0000001	100.0150	100.9916	100.3861	1.9828e-01	1.0094e+00
113	VPW0000002	119.3322	119.9181	119.6212	1.6852e-01	1.0822e+00
114	VPW0000003	147.0928	147.8741	147.4717	1.7384e-01	1.1996e+00
115	VPW0000004	104.5974	105.7692	105.2184	2.3241e-01	1.0270e+00
116	VPW0000005	136.8803	138.2475	137.5014	2.8913e-01	1.1562e+00
117	VPW0000006	146.2365	147.0177	146.5724	2.1264e-01	1.1956e+00
118	IPW0000001	539.6729	549.4346	544.7099	2.3030e+00	9.1721e+00
119	IPW0000002	1307.8009	1317.5573	1313.9280	2.6152e+00	1.3166e+01
120	IPW0000003	1332.2999	1344.0000	1337.8771	2.3967e+00	1.3316e+01
121	IPW0000004	381.9204	385.3384	383.6686	8.4912e-01	3.6314e+00
122	IPW0000005	250.0126	252.9420	250.9599	7.6665e-01	2.8161e+00
123	IPW0000006	267.4279	269.8693	268.5606	6.0361e-01	2.9157e+00
124	EMPTY	-0.0244	-0.0098	-0.0199	3.8002e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.7213e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	2.9856e-03	0.0000e+00
128	IHT0000001	131.8885	134.4276	133.2870	5.6684e-01	4.3112e+00
129	IHT0000002	132.4557	134.9947	133.7486	5.6482e-01	4.3126e+00
130	IHT0000003	132.0012	134.1496	132.9777	5.3959e-01	4.3103e+00
131	IHT0000004	132.6848	134.8332	133.6144	6.0562e-01	4.3122e+00
132	IHT0000005	130.0631	132.4069	131.1099	5.6601e-01	4.3045e+00
133	IHT0000006	126.1043	128.2527	127.2020	5.6757e-01	4.2928e+00
134	IHT0000007	130.8030	133.3421	131.7953	5.8904e-01	4.3066e+00
135	IHT0000008	131.0209	133.5600	131.9545	5.9620e-01	4.3071e+00
136	IHT0000009	131.6782	134.2172	132.7641	5.8681e-01	4.3096e+00
137	IHT0000010	130.8932	133.2369	131.8033	5.9662e-01	4.3066e+00
138	IHT0000011	134.7356	137.4700	135.9582	5.5357e-01	4.3195e+00
139	IHT0000012	128.4405	130.9796	129.7764	5.5854e-01	4.3005e+00
140	IHT0000013	92.0523	94.5913	93.3179	5.6254e-01	4.2049e+00
141	IHT0000014	126.4461	128.5945	127.4618	5.6359e-01	4.2936e+00
142	IHT0000015	96.3003	98.2535	97.2964	5.2534e-01	4.2139e+00
143	IHT0000016	87.8380	89.7912	88.8107	5.1974e-01	4.1951e+00
144	IHT0000017	106.2200	109.9309	108.0597	8.0586e-01	4.2400e+00
145	IHT0000018	108.6200	110.9638	109.6005	5.7112e-01	4.2440e+00
146	IHT0000019	104.3307	106.4791	105.3267	5.5978e-01	4.2331e+00
147	IHT0000020	107.1965	109.5403	108.1613	5.3439e-01	4.2403e+00
148	IHT0000021	-2.5804	-0.0413	-1.3460	6.4288e-01	4.1000e+00
149	IHT0000022	91.5678	93.3256	92.4272	5.4534e-01	4.2029e+00
150	IHT0000023	106.7683	108.7215	107.5535	5.6150e-01	4.2387e+00
151	IHT0000024	71.8938	73.6516	72.6711	5.1371e-01	4.1639e+00
152	IHT0000025	104.0640	106.2125	104.9898	5.9295e-01	4.2323e+00
153	IHT0000026	105.8519	108.0003	106.8714	5.7897e-01	4.2370e+00
154	IHT0000027	88.6568	91.1959	89.9185	5.7346e-01	4.1974e+00
155	IHT0000028	90.5424	93.2768	91.5541	5.8486e-01	4.2010e+00

Test: May07_02

sum2

Date: Mon May 7 13:14:13 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8218	108.7515	106.7905	6.3865e-01	4.2368e+00
157	IHT000030	108.0341	110.3778	108.9443	5.8741e-01	4.2423e+00
158	IHT000031	106.9186	109.2623	107.8599	5.8353e-01	4.2395e+00
159	IHT000032	108.1843	110.9187	109.2430	6.1522e-01	4.2430e+00
160	IHT000033	108.1693	110.7084	109.1772	6.0664e-01	4.2429e+00
161	IHT000034	94.7378	96.3003	95.4956	4.6629e-01	4.2097e+00
162	IHT000035	122.6375	124.9812	123.6922	5.0686e-01	4.2825e+00
163	IHT000036	93.1866	94.9444	94.0772	4.5018e-01	4.2065e+00

Velocity 1 = 0.017401 (ft/sec)
 Velocity 2 = 0.000000 (ft/sec)
 Pressure Drop = 0.012601 (psi)
 Tsat in = 0.081909 (deg F) Tsat out = 0.115997 (deg F)
 Phi inner = 0.394798 (kBtu/hr-ft2) Phi outer = 0.578201 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0766	0.1028
1	TRF000002	0.0550	0.0738
2	TFM000001	0.0107	0.0122
3	TIN000001	0.0483	0.0555
4	TRV000001	0.0401	0.0460
5	TSR000001	0.2166	0.2072
6	TAO020136	0.0598	0.0525
7	TAO050136	0.1120	0.0977
8	TAO070136	0.0224	0.0189
9	TAO080136	0.1191	0.0965
10	TAO090136	0.1074	0.0858
11	TAO100136	0.1038	0.0854
12	TAO105136	0.1899	0.1534
13	TAO110136	0.1666	0.1324
14	TAO115136	0.1534	0.1234
15	TAO120136	0.2068	0.1596
16	TAO125136	0.1642	0.1310
17	TAO130136	0.1614	0.1295
18	TAO120048	0.2653	0.2044
19	TAO130048	0.2976	0.2358
20	TAO120224	0.1035	0.0803
21	TAO130224	0.1754	0.1420
22	TAO120312	0.2908	0.2262
23	TAO130312	0.2772	0.2157
24	TRT020000	0.2954	0.2621
25	TRT070000	0.3686	0.3039
26	TRT100000	0.4227	0.3239
27	TRT120000	0.4120	0.3215
28	TRT125000	0.4077	0.3081
29	TRT130000	0.4024	0.3093
30	EMPTY	0.0276	0.0697
31	TAF050136	0.1346	0.1384
32	TAF070136	0.1049	0.1035
33	TAF080136	0.1349	0.1093
34	TAF090136	0.1836	0.1750
35	TAF100136	0.0975	0.0920
36	TAF105136	0.0998	0.0933
37	TAF110136	0.0960	0.0854
38	TAF115136	0.1336	0.1222
39	TAF120136	0.1448	0.1237
40	TAF125136	0.0506	0.0455
41	TAF130136	0.0675	0.0601
42	TAF120048	0.1684	0.1510
43	TAF130048	0.1250	0.1105
44	TAF120224	0.0884	0.0795
45	TAF130224	0.0851	0.0758

#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0845
47	EMPTY	0.0367	0.0935
48	TAI130138	0.1038	0.0829
49	TAI130226	0.1073	0.0870
50	TAI130314	0.1900	0.1511
51	TAI130042	0.1654	0.1344
52	TRR130090	1.6702	1.2735
53	TSI000001	0.0933	0.1998
54	TSI000002	1.1687	1.0240
55	TSO000001	0.0674	0.1471
56	TSO000002	0.0063	0.0119
57	TAF020136	0.0145	0.0162
58	TAF120312	0.1537	0.1384
59	TAF130312	0.2023	0.1750
60	EMPTY	0.0058	0.4988
61	EMPTY	0.0052	0.4436
62	EMPTY	0.0055	0.4654
63	EMPTY	0.0081	0.6780
64	EMPTY	0.0032	0.4891
65	EMPTY	0.0032	0.4748
66	EMPTY	0.0026	0.3775
67	EMPTY	0.0030	0.4249
68	EMPTY	0.0032	0.4458
69	EMPTY	0.0031	0.4215
70	EMPTY	0.0016	0.2137
71	EMPTY	0.0042	0.5444
72	EMPTY	0.0042	0.5348
73	EMPTY	0.0006	0.0749
74	EMPTY	0.0019	0.2330
75	EMPTY	0.0032	0.3841
76	EMPTY	0.0012	0.1420
77	EMPTY	0.0043	0.4975
78	EMPTY	0.0014	0.1583
79	EMPTY	0.0045	0.4957
80	PAN020136	0.2151	0.6791
81	PAN050136	0.1098	0.1938
82	PAN070136	0.2685	0.6698
83	PAN080136	0.0580	0.2777
84	PAN090136	0.0534	0.3124
85	PAN100136	0.0518	0.2690
86	PAN105136	0.2365	2.6736
87	PAN110136	0.1327	1.0895
88	PAN115136	0.0138	0.1384
89	PAN120136	0.0275	0.3850
90	PAN125136	0.0428	0.3834
91	PAN130136	0.0000	0.0000
92	PAN120048	0.0229	0.0999
93	PAN130048	0.0763	0.4498
94	PAN120224	0.0473	0.2850
95	PAN130224	0.1907	0.9396
96	PAN120312	0.0000	0.0000
97	PAN130312	0.0672	0.3245
98	PAB000136	0.0742	0.1237
99	PAB100136	0.0870	0.1637
100	PAB125136	0.0953	0.1853

Test: May07_02

dif

Date: Mon May 7 13:14:13 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0122	0.0204
102	PRV000001	0.0660	0.3375
103	PSR000001	0.1050	0.2113
104	PFM000001	0.1062	0.1763
105	PAN000136	0.3479	0.1407
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0019	30.1587
108	EMPTY	0.0438	0.4574
109	EMPTY	0.0016	26.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0898	0.0894
113	VPW000002	0.0859	0.0719
114	VPW000003	0.0664	0.0450
115	VPW000004	0.0118	0.0112
116	VPW000005	2.3360	1.6705
117	VPW000006	0.0274	0.0187
118	IPW000001	8.3561	1.5579
119	IPW000002	11.6686	0.8803
120	IPW000003	5.1481	0.3833
121	IPW000004	1.0840	0.2833
122	IPW000005	4.8431	1.8933
123	IPW000006	0.5176	0.1924
124	EMPTY	0.0018	8.2949
125	EMPTY	0.0010	7.1429
126	EMPTY	0.0019	10.5555
127	EMPTY	0.0006	3.7037
128	IHT000001	0.0781	0.0586
129	IHT000002	0.0156	0.0117
130	IHT000003	0.0469	0.0353
131	IHT000004	0.0781	0.0585
132	IHT000005	0.0351	0.0268
133	IHT000006	0.0547	0.0430
134	IHT000007	0.0547	0.0415
135	IHT000008	0.0820	0.0622
136	IHT000009	0.0898	0.0677
137	IHT000010	0.1641	0.1247
138	IHT000011	0.1719	0.1266
139	IHT000012	0.1602	0.1236
140	IHT000013	0.0781	0.0838
141	IHT000014	2.0312	1.5686
142	IHT000015	0.0781	0.0803
143	IHT000016	0.0429	0.0483
144	IHT000017	0.5585	0.5195
145	IHT000018	0.1367	0.1249
146	IHT000019	0.1562	0.1485
147	IHT000020	0.1484	0.1374
148	IHT000021	0.1367	9.2197
149	IHT000022	0.0117	0.0127
150	IHT000023	0.1679	0.1564
151	IHT000024	0.1601	0.2208
152	IHT000025	0.1836	0.1752
153	IHT000026	0.1836	0.1721
154	IHT000027	0.0664	0.0739
155	IHT000028	0.1954	0.2130

Test: May07_02 dif Date: Mon May 7 13:14:13 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0391	0.0366
157	IHT000030	0.0820	0.0752
158	IHT000031	0.0078	0.0072
159	IHT000032	0.0274	0.0251
160	IHT000033	0.0312	0.0286
161	IHT000034	0.0351	0.0368
162	IHT000035	2.0235	1.6096
163	IHT000036	0.0586	0.0623

Velocity 1 = 14.0229 (ft/sec) (+/- 1.8661 %)
 Velocity 2 = 13.4285 (ft/sec) (+/- 1.7031 %)
 Pressure drop = 2.1611 (psi)
 Tsat in = 293.0506 (deg F) Tsat out = 290.7736 (deg F)
 Phi inner = 101.4517 (kBtu/hr-ft2) (+/- 1.4105 %)
 Phi outer = 101.1496 (kBtu/hr-ft2) (+/- 1.6175 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.5435	74.9688	74.7051	1.5820e-01	1.9000e+00
1	TRF0000002	74.4210	74.8440	74.6833	1.3212e-01	1.9000e+00
2	TFM0000001	86.4512	87.0806	86.7532	1.7282e-01	1.9002e+00
3	TIN0000001	85.8768	86.4020	86.1163	1.2744e-01	1.9002e+00
4	TRV0000001	85.7705	86.7127	86.2772	2.2417e-01	1.9002e+00
5	TSR0000001	104.9781	106.2150	105.5513	2.9958e-01	1.9009e+00
6	TAO020136	121.2142	122.3386	121.7826	2.4196e-01	1.9018e+00
7	TAO050136	123.0569	123.7691	123.4635	1.6055e-01	1.9019e+00
8	TAO070136	124.8456	125.7635	125.3188	2.1198e-01	1.9021e+00
9	TAO080136	134.7616	135.3668	135.0239	1.4833e-01	1.9028e+00
10	TAO090136	136.8750	137.7814	137.3748	2.1432e-01	1.9031e+00
11	TAO100136	132.9585	133.6666	133.3023	1.5964e-01	1.9027e+00
12	TAO105136	135.4900	136.4001	135.9229	2.0122e-01	1.9029e+00
13	TAO110136	138.3441	139.0461	138.7174	1.7200e-01	1.9032e+00
14	TAO115136	136.7826	137.6934	137.2076	2.2195e-01	1.9030e+00
15	TAO120136	143.0230	143.7230	143.3307	1.3397e-01	1.9036e+00
16	TAO125136	138.5318	139.1360	138.8057	1.6280e-01	1.9032e+00
17	TAO130136	136.9449	137.6451	137.3373	1.4027e-01	1.9031e+00
18	TAO120048	143.4291	144.1318	143.8425	1.5659e-01	1.9037e+00
19	TAO130048	139.5672	140.0703	139.8487	1.3014e-01	1.9033e+00
20	TAO120224	142.6665	143.2693	142.9316	1.6462e-01	1.9036e+00
21	TAO130224	135.6418	136.5454	136.0629	1.8391e-01	1.9029e+00
22	TAO120312	142.4785	143.1825	142.7803	1.9277e-01	1.9036e+00
23	TAO130312	141.9219	142.5246	142.1710	1.4663e-01	1.9035e+00
24	TRT020000	120.0314	120.8514	120.4498	1.9730e-01	1.9017e+00
25	TRT070000	132.0781	132.5882	132.3230	1.5510e-01	1.9026e+00
26	TRT100000	143.1576	143.9601	143.5748	2.0398e-01	1.9036e+00
27	TRT120000	141.9857	142.6893	142.3715	1.8755e-01	1.9035e+00
28	TRT125000	147.2743	148.1706	147.7209	2.0555e-01	1.9041e+00
29	TRT130000	143.6035	144.4055	143.9483	1.5710e-01	1.9037e+00
30	EMPTY	39.1464	40.0646	39.6102	2.1993e-01	1.9011e+00
31	TAF050136	99.6919	100.4177	100.0195	1.7568e-01	1.9006e+00
32	TAF070136	105.2811	106.3119	105.7306	2.3254e-01	1.9009e+00
33	TAF080136	134.4710	134.9747	134.7093	1.5585e-01	1.9028e+00
34	TAF090136	110.1336	111.1625	110.6233	2.5072e-01	1.9011e+00
35	TAF100136	112.2996	113.0208	112.6377	1.9966e-01	1.9012e+00
36	TAF105136	113.4918	114.3086	113.8596	2.2115e-01	1.9013e+00
37	TAF110136	120.9902	121.7039	121.4182	1.4996e-01	1.9018e+00
38	TAF115136	116.7570	117.6786	117.1052	2.1196e-01	1.9015e+00
39	TAF120136	127.4543	128.2661	127.8641	1.7634e-01	1.9023e+00
40	TAF125136	119.3356	120.4553	119.9383	2.6624e-01	1.9017e+00
41	TAF130136	120.9901	121.7045	121.3573	1.8325e-01	1.9018e+00
42	TAF120048	119.4900	120.7230	120.0777	2.4223e-01	1.9017e+00
43	TAF130048	122.0159	122.7299	122.4726	1.7507e-01	1.9019e+00
44	TAF120224	119.3723	120.2925	119.8018	2.2055e-01	1.9017e+00
45	TAF130224	120.9817	121.8021	121.4283	1.9502e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0618	2.1307e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3393	1.0740e-01	1.9010e+00
48	TAI130138	138.0665	139.1752	138.5265	2.9797e-01	1.9032e+00
49	TAI130226	136.0430	136.9492	136.4660	1.7617e-01	1.9030e+00
50	TAI130314	138.5000	139.6112	139.0821	2.8397e-01	1.9032e+00
51	TAI130042	135.7064	136.5147	136.0862	1.9849e-01	1.9029e+00
52	TRR130090	131.7519	133.6706	132.7699	4.3492e-01	1.9027e+00
53	TSI000001	46.4142	47.1726	46.8042	1.9083e-01	1.9004e+00
54	TSI000002	114.6705	116.1032	115.4850	2.9365e-01	1.9014e+00
55	TSO000001	45.5646	46.2184	45.8521	1.7699e-01	1.9004e+00
56	TSO000002	53.0424	53.9042	53.4908	1.9999e-01	1.9002e+00
57	TAF020136	89.2802	90.0156	89.6251	1.8510e-01	1.9003e+00
58	TAF120312	119.2881	120.3087	119.7984	2.7346e-01	1.9017e+00
59	TAF130312	125.7356	126.6486	126.1664	1.9947e-01	1.9021e+00
60	EMPTY	1.4063	1.4160	1.4095	2.7213e-03	0.0000e+00
61	EMPTY	1.4160	1.4209	1.4163	1.1714e-03	0.0000e+00
62	EMPTY	1.4209	1.4258	1.4246	2.1065e-03	0.0000e+00
63	EMPTY	1.4355	1.4355	1.4355	0.0000e+00	0.0000e+00
64	EMPTY	0.7520	0.7617	0.7568	9.8648e-04	0.0000e+00
65	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
66	EMPTY	0.7861	0.7910	0.7908	9.6655e-04	0.0000e+00
67	EMPTY	0.8057	0.8105	0.8061	1.3381e-03	0.0000e+00
68	EMPTY	0.8154	0.8203	0.8192	2.0432e-03	0.0000e+00
69	EMPTY	0.8350	0.8350	0.8350	0.0000e+00	0.0000e+00
70	EMPTY	0.8496	0.8496	0.8496	0.0000e+00	0.0000e+00
71	EMPTY	0.8643	0.8691	0.8690	6.9053e-04	0.0000e+00
72	EMPTY	0.8789	0.8838	0.8833	1.4797e-03	0.0000e+00
73	EMPTY	0.8984	0.9033	0.8985	6.9053e-04	0.0000e+00
74	EMPTY	0.9131	0.9131	0.9131	0.0000e+00	0.0000e+00
75	EMPTY	0.9277	0.9326	0.9278	6.9053e-04	0.0000e+00
76	EMPTY	0.9375	0.9424	0.9421	1.1714e-03	0.0000e+00
77	EMPTY	0.9570	0.9619	0.9572	9.6655e-04	0.0000e+00
78	EMPTY	0.9766	0.9814	0.9791	2.4642e-03	0.0000e+00
79	EMPTY	1.0010	1.0010	1.0010	0.0000e+00	0.0000e+00
80	PAN020136	7.3977	8.8473	8.1408	3.5210e-01	8.7024e-01
81	PAN050136	12.9044	13.8199	13.4690	2.2914e-01	1.6803e+00
82	PAN070136	9.2598	10.0227	9.7588	1.5659e-01	8.7034e-01
83	PAN080136	5.1955	5.5007	5.3786	8.3005e-02	8.7010e-01
84	PAN090136	2.7600	3.2940	3.0667	1.1585e-01	8.7003e-01
85	PAN100136	4.2007	4.7347	4.4814	1.3651e-01	8.7007e-01
86	PAN105136	1.8788	2.3365	2.1244	9.9044e-02	8.7002e-01
87	PAN110136	2.9176	3.6805	3.3036	1.5056e-01	8.7004e-01
88	PAN115136	2.6270	3.1611	2.9139	1.3039e-01	8.7003e-01
89	PAN120136	0.3236	0.8577	0.6074	1.0572e-01	8.7000e-01
90	PAN125136	2.9851	3.3665	3.2094	9.7983e-02	8.7004e-01
91	PAN130136	2.2471	2.6286	2.4104	9.1202e-02	8.7002e-01
92	PAN120048	5.9071	6.3648	6.0780	1.0741e-01	8.7013e-01
93	PAN130048	2.4812	3.0915	2.7330	1.2355e-01	8.7003e-01
94	PAN120224	3.1927	3.9557	3.5422	1.4302e-01	8.7005e-01
95	PAN130224	4.6393	5.2497	4.9644	1.3332e-01	8.7009e-01
96	PAN120312	5.6532	6.1110	5.8943	1.2929e-01	8.7012e-01
97	PAN130312	5.0562	5.4376	5.2469	1.0019e-01	8.7010e-01
98	PAB000136	60.1069	60.5646	60.4007	8.3280e-02	5.9933e-01
99	PAB100136	58.6103	58.7934	58.6799	5.0009e-02	5.9826e-01
100	PAB125136	58.2449	58.4280	58.3539	4.1245e-02	5.9807e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.8870	60.6194	60.2068	1.5181e-01	7.6495e-01
102	PRV000001	19.6296	19.6296	19.6296	5.7801e-06	7.5160e-01
103	PSR000001	57.4011	57.5232	57.4207	4.5206e-02	7.6361e-01
104	PFM000001	29.7476	30.6631	30.1449	2.1855e-01	5.0565e-01
105	PAN000136	55.5566	63.3386	59.8321	1.7143e+00	4.9223e+00
106	PFM000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-9.7510	-9.0918	-9.4072	1.7359e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	100.2103	100.6009	100.3548	1.1027e-01	1.0093e+00
113	VPW000002	119.3322	119.7228	119.6095	1.0507e-01	1.0822e+00
114	VPW000003	147.2881	147.6788	147.5498	1.1578e-01	1.1999e+00
115	VPW000004	104.9880	105.7692	105.2848	1.5902e-01	1.0272e+00
116	VPW000005	139.6146	140.2006	139.9467	1.5906e-01	1.1667e+00
117	VPW000006	146.4318	147.0177	146.6896	1.2750e-01	1.1961e+00
118	IPW000001	545.5299	551.3869	548.2242	1.3601e+00	9.1852e+00
119	IPW000002	1309.7522	1313.6548	1311.2742	1.1351e+00	1.3150e+01
120	IPW000003	1326.4500	1332.2999	1330.1946	1.4656e+00	1.3268e+01
121	IPW000004	380.9439	382.8970	381.8424	4.8688e-01	3.6193e+00
122	IPW000005	254.8949	256.3596	255.4710	3.3725e-01	2.8413e+00
123	IPW000006	267.4279	268.8928	268.1017	3.6765e-01	2.9131e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	3.2955e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	3.5348e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0191	3.0945e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0174	3.2955e-03	0.0000e+00
128	IHT000001	132.0838	134.2323	133.1385	4.7679e-01	4.3108e+00
129	IHT000002	132.2603	134.6041	133.6431	4.6327e-01	4.3123e+00
130	IHT000003	131.6106	133.7590	132.8683	4.7377e-01	4.3099e+00
131	IHT000004	132.0988	134.6379	133.5207	5.1756e-01	4.3119e+00
132	IHT000005	129.6725	132.0162	130.9732	4.9381e-01	4.3041e+00
133	IHT000006	125.9089	127.8621	127.1122	4.6414e-01	4.2925e+00
134	IHT000007	130.6077	132.5608	131.6976	5.0853e-01	4.3063e+00
135	IHT000008	131.0209	132.7787	131.9077	4.7056e-01	4.3070e+00
136	IHT000009	131.6782	133.6313	132.6587	4.6436e-01	4.3093e+00
137	IHT000010	130.6979	132.6510	131.5689	4.9318e-01	4.3059e+00
138	IHT000011	134.9309	137.0793	135.8136	4.9006e-01	4.3191e+00
139	IHT000012	128.6358	130.9796	129.6631	4.9883e-01	4.3001e+00
140	IHT000013	92.2476	94.0054	93.2241	4.0626e-01	4.2046e+00
141	IHT000014	128.5945	130.1570	129.4461	3.8613e-01	4.2995e+00
142	IHT000015	96.3003	97.8628	97.1323	3.9025e-01	4.2135e+00
143	IHT000016	87.6427	89.7912	88.5842	4.2807e-01	4.1946e+00
144	IHT000017	105.8293	108.1731	106.8019	4.9833e-01	4.2368e+00
145	IHT000018	108.4247	110.1825	109.2529	4.8095e-01	4.2431e+00
146	IHT000019	104.1353	106.4791	105.0415	5.2461e-01	4.2324e+00
147	IHT000020	106.8059	109.3450	107.8098	5.0380e-01	4.2394e+00
148	IHT000021	-2.7757	-0.0413	-1.6741	6.1480e-01	4.1000e+00
149	IHT000022	90.9818	93.5209	92.1264	5.0841e-01	4.2022e+00
150	IHT000023	106.1824	108.9168	107.2723	5.4546e-01	4.2380e+00
151	IHT000024	71.3078	74.0422	72.3899	5.6526e-01	4.1634e+00
152	IHT000025	103.4781	106.4078	104.6733	5.6859e-01	4.2315e+00
153	IHT000026	105.2659	108.0003	106.5277	5.4848e-01	4.2361e+00
154	IHT000027	88.2662	90.8053	89.5709	5.6557e-01	4.1967e+00
155	IHT000028	90.3471	92.8861	91.5580	5.8793e-01	4.2010e+00

Test: May07_03

sum1

Date: Mon May 7 13:24:57 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6265	107.5796	106.7241	5.1734e-01	4.2366e+00
157	IHT000030	108.0341	109.7919	108.9052	4.8200e-01	4.2422e+00
158	IHT000031	106.7233	108.6764	107.8052	5.0410e-01	4.2394e+00
159	IHT000032	107.9890	110.1375	109.1570	5.1067e-01	4.2428e+00
160	IHT000033	107.9740	110.1225	109.0835	5.0754e-01	4.2426e+00
161	IHT000034	94.5425	96.4957	95.4448	4.5998e-01	4.2096e+00
162	IHT000035	124.7859	126.7390	125.7352	4.8969e-01	4.2885e+00
163	IHT000036	93.1866	95.1397	94.0420	5.0051e-01	4.2065e+00

Test: May07_03

sum2

Date: Mon May 7 13:24:57 1990

Page: 1

Velocity 1 = 14.0884 (ft/sec) (+/- 1.8626 %)
Velocity 2 = 13.4277 (ft/sec) (+/- 1.7031 %)
Pressure drop = 2.2299 (psi)
Tsat in = 292.6610 (deg F) Tsat out = 290.2420 (deg F)
Phi inner = 102.1372 (kBtu/hr-ft2) (+/- 1.4087 %)
Phi outer = 100.8140 (kBtu/hr-ft2) (+/- 1.6197 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3308	74.9688	74.6966	1.9232e-01	1.9000e+00
1	TRF000002	74.4210	74.8440	74.6537	1.2273e-01	1.9000e+00
2	TFM000001	85.7179	86.5571	86.0850	1.9684e-01	1.9002e+00
3	TIN000001	85.1404	85.8767	85.4498	1.6519e-01	1.9002e+00
4	TRV000001	85.1429	85.9807	85.6315	2.2154e-01	1.9002e+00
5	TSR000001	104.8754	106.7289	105.9647	5.2938e-01	1.9009e+00
6	TAO020136	120.6001	121.6232	121.0563	2.1809e-01	1.9018e+00
7	TAO050136	122.4477	123.3633	122.7469	2.0180e-01	1.9019e+00
8	TAO070136	124.6413	125.5604	125.2637	2.1845e-01	1.9021e+00
9	TAO080136	134.0588	134.5635	134.2785	1.4081e-01	1.9028e+00
10	TAO090136	136.1701	136.8762	136.5713	1.8285e-01	1.9030e+00
11	TAO100136	132.1495	132.7570	132.4875	1.6058e-01	1.9026e+00
12	TAO105136	134.6805	135.4904	135.1603	1.9049e-01	1.9029e+00
13	TAO110136	137.5446	138.3482	137.9125	1.6178e-01	1.9031e+00
14	TAO115136	135.8713	136.9856	136.3594	2.4173e-01	1.9030e+00
15	TAO120136	142.1251	142.8261	142.5079	1.5897e-01	1.9035e+00
16	TAO125136	137.6262	138.2314	137.9109	1.7938e-01	1.9031e+00
17	TAO130136	136.1495	136.8507	136.5166	1.8509e-01	1.9030e+00
18	TAO120048	142.7268	143.4299	143.0262	1.6799e-01	1.9036e+00
19	TAO130048	138.6634	139.3675	139.0280	1.5607e-01	1.9032e+00
20	TAO120224	141.6611	142.4659	142.1461	1.9454e-01	1.9035e+00
21	TAO130224	134.9388	135.6436	135.2715	1.5246e-01	1.9029e+00
22	TAO120312	141.5732	142.4789	142.0057	1.9315e-01	1.9035e+00
23	TAO130312	141.1192	141.7228	141.3991	1.6157e-01	1.9034e+00
24	TRT020000	119.1082	120.1340	119.6885	2.2666e-01	1.9017e+00
25	TRT070000	131.2628	132.0781	131.6317	1.7562e-01	1.9026e+00
26	TRT100000	142.3558	143.2578	142.8153	1.9670e-01	1.9036e+00
27	TRT120000	141.2824	141.9863	141.6021	1.4889e-01	1.9035e+00
28	TRT125000	146.5788	147.2774	146.9276	1.7594e-01	1.9040e+00
29	TRT130000	143.0021	143.6048	143.2175	1.4629e-01	1.9036e+00
30	EMPTY	39.1464	39.8352	39.5551	2.0892e-01	1.9011e+00
31	TAF050136	99.0697	100.0023	99.4085	2.1241e-01	1.9006e+00
32	TAF070136	104.5610	105.4892	105.0001	2.2718e-01	1.9008e+00
33	TAF080136	133.6683	134.4744	134.0531	1.8612e-01	1.9028e+00
34	TAF090136	109.2077	110.4430	109.7245	3.0168e-01	1.9011e+00
35	TAF100136	111.6801	112.3001	111.9468	1.8176e-01	1.9012e+00
36	TAF105136	112.7775	113.6979	113.2460	2.1268e-01	1.9013e+00
37	TAF110136	120.3796	121.0936	120.7569	1.7989e-01	1.9017e+00
38	TAF115136	115.9380	116.9624	116.4440	2.0530e-01	1.9015e+00
39	TAF120136	126.6429	127.3543	127.0921	1.6686e-01	1.9022e+00
40	TAF125136	118.7252	119.7448	119.2412	2.7773e-01	1.9016e+00
41	TAF130136	120.1756	121.0931	120.6500	1.9301e-01	1.9017e+00
42	TAF120048	118.8711	119.9001	119.4289	2.4065e-01	1.9016e+00
43	TAF130048	121.4038	122.2205	121.7573	1.8806e-01	1.9018e+00
44	TAF120224	118.6563	119.6796	119.1170	2.4124e-01	1.9016e+00
45	TAF130224	120.4674	121.1851	120.7897	1.8997e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	38.0158	1.8489e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.3072	1.1599e-01	1.9010e+00
48	TAI130138	137.3604	138.3692	137.7544	2.4983e-01	1.9031e+00
49	TAI130226	135.4397	136.2460	135.7563	1.7269e-01	1.9029e+00
50	TAI130314	137.5903	139.0049	138.4332	3.5576e-01	1.9032e+00
51	TAI130042	134.9985	136.0093	135.4253	1.8187e-01	1.9029e+00
52	TRR130090	131.8528	132.9645	132.4046	2.7616e-01	1.9026e+00
53	TSI0000001	46.1972	47.1726	46.6808	1.8733e-01	1.9004e+00
54	TSI0000002	114.2614	115.6945	114.9923	3.2955e-01	1.9014e+00
55	TSO0000001	45.3465	46.2178	45.7541	2.0737e-01	1.9004e+00
56	TSO0000002	53.0418	53.7971	53.3982	1.8511e-01	1.9002e+00
57	TAF020136	88.6486	89.5948	89.0926	1.8916e-01	1.9002e+00
58	TAF120312	118.5734	119.5954	119.0866	2.9204e-01	1.9016e+00
59	TAF130312	124.9231	125.8384	125.4500	2.0704e-01	1.9021e+00
60	EMPTY	1.3867	1.3965	1.3925	2.1364e-03	0.0000e+00
61	EMPTY	1.3965	1.4014	1.4011	1.1714e-03	0.0000e+00
62	EMPTY	1.4063	1.4111	1.4082	2.4164e-03	0.0000e+00
63	EMPTY	1.4160	1.4209	1.4201	1.8082e-03	0.0000e+00
64	EMPTY	0.7471	0.7520	0.7474	1.1714e-03	0.0000e+00
65	EMPTY	0.7617	0.7715	0.7668	1.3811e-03	0.0000e+00
66	EMPTY	0.7764	0.7813	0.7807	1.6028e-03	0.0000e+00
67	EMPTY	0.7959	0.8008	0.7962	1.1714e-03	0.0000e+00
68	EMPTY	0.8057	0.8105	0.8092	2.2146e-03	0.0000e+00
69	EMPTY	0.8252	0.8252	0.8252	0.0000e+00	0.0000e+00
70	EMPTY	0.8350	0.8398	0.8395	1.3381e-03	0.0000e+00
71	EMPTY	0.8545	0.8643	0.8595	1.2041e-03	0.0000e+00
72	EMPTY	0.8643	0.8740	0.8720	2.6267e-03	0.0000e+00
73	EMPTY	0.8887	0.8936	0.8888	6.9053e-04	0.0000e+00
74	EMPTY	0.8984	0.9033	0.9032	6.9053e-04	0.0000e+00
75	EMPTY	0.9131	0.9229	0.9179	1.2041e-03	0.0000e+00
76	EMPTY	0.9277	0.9326	0.9309	2.3675e-03	0.0000e+00
77	EMPTY	0.9473	0.9521	0.9474	6.9053e-04	0.0000e+00
78	EMPTY	0.9668	0.9717	0.9681	2.1635e-03	0.0000e+00
79	EMPTY	0.9912	0.9912	0.9912	0.0000e+00	0.0000e+00
80	PAN020136	7.7791	9.1524	8.3330	3.2691e-01	8.7025e-01
81	PAN050136	13.5147	14.7354	13.9511	3.0829e-01	1.6804e+00
82	PAN070136	9.6413	10.6331	10.0258	2.0446e-01	8.7036e-01
83	PAN080136	5.1955	5.7296	5.4778	1.3722e-01	8.7011e-01
84	PAN090136	2.7600	3.5229	3.1613	1.5930e-01	8.7004e-01
85	PAN100136	4.2770	4.7347	4.5516	1.2331e-01	8.7007e-01
86	PAN105136	2.1076	2.6417	2.3701	1.2725e-01	8.7002e-01
87	PAN110136	2.9939	3.6042	3.3219	1.4064e-01	8.7004e-01
88	PAN115136	2.7033	3.3137	2.9765	1.2996e-01	8.7003e-01
89	PAN120136	0.3999	0.8577	0.6151	1.0071e-01	8.7000e-01
90	PAN125136	3.1376	3.5191	3.3543	1.0150e-01	8.7004e-01
91	PAN130136	2.1708	2.7049	2.4485	1.0652e-01	8.7002e-01
92	PAN120048	5.9834	6.4411	6.2321	1.1618e-01	8.7014e-01
93	PAN130048	2.5575	3.0915	2.8596	1.2984e-01	8.7003e-01
94	PAN120224	3.4216	4.2609	3.7650	1.9814e-01	8.7005e-01
95	PAN130224	4.7919	5.4023	5.1246	1.2874e-01	8.7009e-01
96	PAN120312	5.7775	6.4161	6.0789	1.3357e-01	8.7013e-01
97	PAN130312	5.2087	5.6665	5.3903	1.2028e-01	8.7010e-01
98	PAB000136	59.8322	60.2442	60.0473	8.8826e-02	5.9911e-01
99	PAB100136	58.1983	58.3814	58.2752	4.9320e-02	5.9802e-01
100	PAB125136	57.7871	57.9702	57.8823	4.6093e-02	5.9778e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.5208	60.4974	59.9675	1.7888e-01	7.6484e-01
102	PRV000001	19.5075	19.6296	19.6223	2.9284e-02	7.5160e-01
103	PSR000001	56.9128	57.0349	57.0178	4.2787e-02	7.6343e-01
104	PFM000001	30.0222	30.9378	30.4324	2.1982e-01	5.0576e-01
105	PAN000136	58.3032	67.9162	61.7364	1.8640e+00	4.9224e+00
106	PFM000002	27.6269	27.6269	27.6270	7.7069e-06	2.1159e-01
107	EMPTY	0.0049	0.0098	0.0054	1.4797e-03	0.0000e+00
108	EMPTY	-9.4531	-9.0088	-9.2581	8.8747e-02	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0050	1.2041e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	100.2103	100.4056	100.2884	9.6655e-02	1.0090e+00
113	VPW0000002	119.5275	119.9181	119.6759	9.3043e-02	1.0825e+00
114	VPW0000003	147.2881	147.8741	147.4951	1.3329e-01	1.1997e+00
115	VPW0000004	104.9880	105.5739	105.2575	1.1765e-01	1.0271e+00
116	VPW0000005	139.6146	140.0053	139.7944	1.1049e-01	1.1660e+00
117	VPW0000006	146.4318	146.8224	146.6505	1.2871e-01	1.1960e+00
118	IPW0000001	531.8635	537.7205	535.4167	1.8370e+00	9.1379e+00
119	IPW0000002	1309.7522	1323.4111	1314.2404	3.3041e+00	1.3168e+01
120	IPW0000003	1338.1499	1344.0000	1341.0364	1.3208e+00	1.3336e+01
121	IPW0000004	381.9204	382.8970	382.4576	2.4662e-01	3.6234e+00
122	IPW0000005	253.9184	255.3831	254.8167	3.4678e-01	2.8377e+00
123	IPW0000006	267.9162	269.3810	268.6192	4.0864e-01	2.9160e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.7486e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	3.1521e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.5238e-03	0.0000e+00
128	IHT0000001	132.0838	134.8182	133.2518	5.3012e-01	4.3111e+00
129	IHT0000002	132.4557	135.1900	133.7095	5.3246e-01	4.3125e+00
130	IHT0000003	131.6106	134.3449	132.9152	5.2265e-01	4.3101e+00
131	IHT0000004	132.2942	134.6379	133.5246	5.0417e-01	4.3119e+00
132	IHT0000005	129.6725	132.4069	131.0435	5.0299e-01	4.3043e+00
133	IHT0000006	125.9089	128.0574	127.0614	4.7062e-01	4.2924e+00
134	IHT0000007	130.6077	132.7561	131.7093	4.9088e-01	4.3064e+00
135	IHT0000008	130.8256	132.7787	131.8452	4.8051e-01	4.3068e+00
136	IHT0000009	131.4829	134.0219	132.6782	5.0012e-01	4.3093e+00
137	IHT0000010	130.5025	132.8463	131.6665	4.6010e-01	4.3062e+00
138	IHT0000011	134.9309	136.8840	135.8644	4.2916e-01	4.3192e+00
139	IHT0000012	128.6358	130.5889	129.6748	4.6595e-01	4.3002e+00
140	IHT0000013	92.2476	94.0054	93.1929	4.2381e-01	4.2046e+00
141	IHT0000014	128.3992	130.5476	129.3680	4.6515e-01	4.2993e+00
142	IHT0000015	96.1050	98.0582	97.1206	4.4990e-01	4.2135e+00
143	IHT0000016	87.6427	89.7912	88.5607	4.3984e-01	4.1946e+00
144	IHT0000017	107.3918	109.7356	108.3996	5.2104e-01	4.2409e+00
145	IHT0000018	108.8154	110.7685	109.6474	4.9883e-01	4.2441e+00
146	IHT0000019	104.5260	106.4791	105.4126	4.5199e-01	4.2333e+00
147	IHT0000020	107.3918	109.1497	108.2316	3.8913e-01	4.2404e+00
148	IHT0000021	-2.1897	-0.0413	-1.2601	4.5431e-01	4.1000e+00
149	IHT0000022	91.7631	93.5209	92.3569	3.4616e-01	4.2027e+00
150	IHT0000023	106.9637	108.7215	107.6199	3.4571e-01	4.2389e+00
151	IHT0000024	71.6984	73.6516	72.7063	3.6456e-01	4.1640e+00
152	IHT0000025	103.8687	105.8218	105.0210	3.7693e-01	4.2324e+00
153	IHT0000026	105.8519	107.6097	106.9378	3.5984e-01	4.2372e+00
154	IHT0000027	89.0475	90.8053	89.8599	3.9530e-01	4.1973e+00
155	IHT0000028	90.5424	93.2768	91.6479	5.0318e-01	4.2012e+00

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5 of 11

Test: May07_03

sum2

Date: Mon May 7 13:24:57 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0171	108.5562	107.0210	5.2201e-01	4.2374e+00
157	IHT000030	108.2294	110.5732	109.2216	5.0508e-01	4.2430e+00
158	IHT000031	107.1139	109.6529	108.0279	5.0136e-01	4.2399e+00
159	IHT000032	108.3796	111.3093	109.4070	5.2022e-01	4.2435e+00
160	IHT000033	108.3646	111.0990	109.3178	4.9700e-01	4.2432e+00
161	IHT000034	94.7378	96.6910	95.5230	4.2952e-01	4.2098e+00
162	IHT000035	124.9812	127.1296	125.6805	4.5522e-01	4.2883e+00
163	IHT000036	93.3819	95.3350	94.1123	3.6765e-01	4.2066e+00

Test: May07_03 dif Date: Mon May 7 13:24:57 1990 Page: 1

Velocity 1 = 0.065500 (ft/sec)

Velocity 2 = 0.000800 (ft/sec)

Pressure Drop = 0.068800 (psi)

Tsat in = 0.389587 (deg F) Tsat out = 0.531586 (deg F)

Phi inner = 0.685501 (kBtu/hr-ft2) Phi outer = 0.335594 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0085	0.0114
1	TRF000002	0.0296	0.0396
2	TFM000001	0.6682	0.7702
3	TIN000001	0.6665	0.7740
4	TRV000001	0.6457	0.7484
5	TSR000001	0.4134	0.3917
6	TAO020136	0.7263	0.5964
7	TAO050136	0.7166	0.5804
8	TAO070136	0.0551	0.0440
9	TAO080136	0.7454	0.5520
10	TAO090136	0.8035	0.5849
11	TAO100136	0.8148	0.6112
12	TAO105136	0.7626	0.5611
13	TAO110136	0.8049	0.5802
14	TAO115136	0.8482	0.6182
15	TAO120136	0.8228	0.5741
16	TAO125136	0.8948	0.6446
17	TAO130136	0.8207	0.5976
18	TAO120048	0.8163	0.5675
19	TAO130048	0.8207	0.5868
20	TAO120224	0.7855	0.5496
21	TAO130224	0.7914	0.5816
22	TAO120312	0.7746	0.5425
23	TAO130312	0.7719	0.5429
24	TRT020000	0.7613	0.6320
25	TRT070000	0.6913	0.5224
26	TRT100000	0.7595	0.5290
27	TRT120000	0.7694	0.5404
28	TRT125000	0.7933	0.5370
29	TRT130000	0.7308	0.5077
30	EMPTY	0.0551	0.1391
31	TAF050136	0.6110	0.6109
32	TAF070136	0.7305	0.6909
33	TAF080136	0.6562	0.4871
34	TAF090136	0.8988	0.8125
35	TAF100136	0.6909	0.6134
36	TAF105136	0.6136	0.5389
37	TAF110136	0.6613	0.5446
38	TAF115136	0.6612	0.5646
39	TAF120136	0.7720	0.6038
40	TAF125136	0.6971	0.5812
41	TAF130136	0.7073	0.5828
42	TAF120048	0.6488	0.5403
43	TAF130048	0.7153	0.5841
44	TAF120224	0.6848	0.5716
45	TAF130224	0.6386	0.5259

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1208
47	EMPTY	0.0321	0.0816
48	TAI130138	0.7721	0.5574
49	TAI130226	0.7097	0.5201
50	TAI130314	0.6489	0.4666
51	TAI130042	0.6609	0.4857
52	TRR130090	0.3653	0.2751
53	TSI000001	0.1234	0.2636
54	TSI000002	0.4927	0.4266
55	TSO000001	0.0980	0.2137
56	TSO000002	0.0926	0.1731
57	TAF020136	0.5325	0.5941
58	TAF120312	0.7118	0.5942
59	TAF130312	0.7164	0.5678
60	EMPTY	0.0170	1.2061
61	EMPTY	0.0152	1.0732
62	EMPTY	0.0164	1.1512
63	EMPTY	0.0154	1.0728
64	EMPTY	0.0094	1.2421
65	EMPTY	0.0096	1.2365
66	EMPTY	0.0101	1.2772
67	EMPTY	0.0099	1.2281
68	EMPTY	0.0100	1.2207
69	EMPTY	0.0098	1.1736
70	EMPTY	0.0101	1.1888
71	EMPTY	0.0095	1.0932
72	EMPTY	0.0113	1.2793
73	EMPTY	0.0097	1.0796
74	EMPTY	0.0099	1.0842
75	EMPTY	0.0099	1.0670
76	EMPTY	0.0112	1.1888
77	EMPTY	0.0098	1.0238
78	EMPTY	0.0110	1.1235
79	EMPTY	0.0098	0.9790
80	PAN020136	0.1922	2.3609
81	PAN050136	0.4821	3.5793
82	PAN070136	0.2670	2.7360
83	PAN080136	0.0992	1.8443
84	PAN090136	0.0946	3.0847
85	PAN100136	0.0702	1.5665
86	PAN105136	0.2457	11.5656
87	PAN110136	0.0183	0.5539
88	PAN115136	0.0626	2.1483
89	PAN120136	0.0077	1.2677
90	PAN125136	0.1449	4.5149
91	PAN130136	0.0381	1.5807
92	PAN120048	0.1541	2.5354
93	PAN130048	0.1266	4.6323
94	PAN120224	0.2228	6.2899
95	PAN130224	0.1602	3.2270
96	PAN120312	0.1846	3.1318
97	PAN130312	0.1434	2.7330
98	PAB000136	0.3534	0.5851
99	PAB100136	0.4047	0.6897
100	PAB125136	0.4716	0.8082

#	Name	Abs Diff	%Diff
101	PIN000001	0.2393	0.3975
102	PRV000001	0.0073	0.0372
103	PSR000001	0.4029	0.7017
104	PFM000001	0.2875	0.9537
105	PAN000136	1.9043	3.1827
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0006	12.5000
108	EMPTY	0.1491	1.5850
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0664	0.0662
113	VPW000002	0.0664	0.0555
114	VPW000003	0.0547	0.0371
115	VPW000004	0.0273	0.0259
116	VPW000005	0.1523	0.1088
117	VPW000006	0.0391	0.0267
118	IPW000001	12.8075	2.3362
119	IPW000002	2.9662	0.2262
120	IPW000003	10.8418	0.8151
121	IPW000004	0.6152	0.1611
122	IPW000005	0.6543	0.2561
123	IPW000006	0.5175	0.1930
124	EMPTY	0.0012	5.3812
125	EMPTY	0.0026	17.3333
126	EMPTY	0.0022	11.5183
127	EMPTY	0.0010	5.7471
128	IHT000001	0.1133	0.0851
129	IHT000002	0.0664	0.0497
130	IHT000003	0.0469	0.0353
131	IHT000004	0.0039	0.0029
132	IHT000005	0.0703	0.0537
133	IHT000006	0.0508	0.0400
134	IHT000007	0.0117	0.0089
135	IHT000008	0.0625	0.0474
136	IHT000009	0.0195	0.0147
137	IHT000010	0.0976	0.0742
138	IHT000011	0.0508	0.0374
139	IHT000012	0.0117	0.0090
140	IHT000013	0.0312	0.0335
141	IHT000014	0.0781	0.0603
142	IHT000015	0.0117	0.0120
143	IHT000016	0.0235	0.0265
144	IHT000017	1.5977	1.4959
145	IHT000018	0.3945	0.3611
146	IHT000019	0.3711	0.3533
147	IHT000020	0.4218	0.3912
148	IHT000021	0.4140	24.7297
149	IHT000022	0.2305	0.2502
150	IHT000023	0.3476	0.3240
151	IHT000024	0.3164	0.4371
152	IHT000025	0.3477	0.3322
153	IHT000026	0.4101	0.3850
154	IHT000027	0.2890	0.3227
155	IHT000028	0.0899	0.0982

Test: May07_03 dif Date: Mon May 7 13:24:57 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.2969	0.2782
157	IHT000030	0.3164	0.2905
158	IHT000031	0.2227	0.2066
159	IHT000032	0.2500	0.2290
160	IHT000033	0.2343	0.2148
161	IHT000034	0.0782	0.0819
162	IHT000035	0.0547	0.0435
163	IHT000036	0.0703	0.0748

Velocity 1 = 8.0405 (ft/sec) (+/- 3.0472 %)
Velocity 2 = 8.0912 (ft/sec) (+/- 1.9012 %)
Pressure drop = -2.7116 (psi)
Tsat in = 292.6458 (deg F) Tsat out = 295.4256 (deg F)
Phi inner = 102.3732 (kBtu/hr-ft2) (+/- 1.4081 %)
Phi outer = 101.1523 (kBtu/hr-ft2) (+/- 1.6186 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.5435	75.1814	74.9135	1.9118e-01	1.9000e+00
1	TRF000002	74.6326	75.0555	74.8863	1.2816e-01	1.9000e+00
2	TFM000001	85.9280	86.9759	86.4627	2.2241e-01	1.9002e+00
3	TIN000001	85.4562	86.0869	85.8072	1.5261e-01	1.9002e+00
4	TRV000001	85.8765	86.6097	86.2387	2.0190e-01	1.9002e+00
5	TSR000001	114.6194	116.6633	116.0641	4.6690e-01	1.9014e+00
6	TAO020136	141.8224	142.9295	142.2954	2.6845e-01	1.9035e+00
7	TAO050136	146.2977	147.4966	146.8196	2.4330e-01	1.9040e+00
8	TAO070136	145.8200	146.6236	146.1436	1.8071e-01	1.9039e+00
9	TAO080136	164.3622	164.9542	164.6600	1.4149e-01	1.9060e+00
10	TAO090136	167.7299	168.7154	168.2445	2.0035e-01	1.9065e+00
11	TAO100136	164.1287	165.1173	164.4988	2.0640e-01	1.9060e+00
12	TAO105136	167.2777	168.3642	167.8683	2.4148e-01	1.9064e+00
13	TAO110136	171.7721	172.6537	172.1004	1.7406e-01	1.9070e+00
14	TAO115136	170.3696	171.4549	170.8690	2.4607e-01	1.9068e+00
15	TAO120136	178.5114	179.0977	178.7716	1.6456e-01	1.9080e+00
16	TAO125136	173.3614	174.4405	174.0030	2.4200e-01	1.9073e+00
17	TAO130136	170.7865	171.4696	171.1078	1.7465e-01	1.9069e+00
18	TAO120048	179.2586	180.0404	179.6437	1.6342e-01	1.9081e+00
19	TAO130048	174.9138	175.5995	175.3035	1.5661e-01	1.9075e+00
20	TAO120224	178.3533	179.3319	178.7858	1.9982e-01	1.9080e+00
21	TAO130224	168.8828	169.8615	169.3586	2.2246e-01	1.9066e+00
22	TAO120312	179.0959	180.0748	179.5128	2.3638e-01	1.9081e+00
23	TAO130312	177.2430	178.0255	177.6205	1.7008e-01	1.9078e+00
24	TRT020000	139.6865	140.6963	140.1371	2.5581e-01	1.9033e+00
25	TRT070000	160.1296	161.0253	160.5453	2.1832e-01	1.9055e+00
26	TRT100000	176.4138	177.2953	176.8078	2.1710e-01	1.9077e+00
27	TRT120000	178.0605	178.9413	178.5634	2.0364e-01	1.9079e+00
28	TRT125000	185.9853	186.7598	186.4133	1.7536e-01	1.9091e+00
29	TRT130000	179.5670	180.3489	179.9172	1.6297e-01	1.9081e+00
30	EMPTY	39.1464	40.0646	39.6378	2.0220e-01	1.9011e+00
31	TAF050136	109.1815	110.3133	109.8340	2.6585e-01	1.9011e+00
32	TAF070136	118.8925	120.0149	119.4988	2.5915e-01	1.9016e+00
33	TAF080136	163.5435	164.6273	164.0545	2.1393e-01	1.9060e+00
34	TAF090136	127.0919	128.5135	127.7279	3.2347e-01	1.9022e+00
35	TAF100136	131.8462	132.7607	132.2874	2.2807e-01	1.9026e+00
36	TAF105136	134.0177	135.2249	134.4390	2.2935e-01	1.9028e+00
37	TAF110136	146.4804	147.1812	146.8470	1.8018e-01	1.9040e+00
38	TAF115136	139.0795	140.0865	139.5691	2.3539e-01	1.9033e+00
39	TAF120136	157.0111	158.0024	157.5010	2.2533e-01	1.9052e+00
40	TAF125136	144.0990	145.1979	144.6087	2.6172e-01	1.9037e+00
41	TAF130136	146.5260	147.5258	147.0641	2.6874e-01	1.9040e+00
42	TAF120048	144.1869	145.3974	144.6732	2.3578e-01	1.9038e+00
43	TAF130048	148.8450	149.7443	149.2107	2.0555e-01	1.9042e+00
44	TAF120224	143.8756	144.8789	144.3595	2.3083e-01	1.9037e+00
45	TAF130224	146.8093	148.1166	147.5431	2.8745e-01	1.9040e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0342	2.0961e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.4496	1.1771e-01	1.9010e+00
48	TAI130138	173.4807	174.6590	174.0993	2.9033e-01	1.9073e+00
49	TAI130226	171.5582	172.5386	172.1087	1.9500e-01	1.9070e+00
50	TAI130314	174.3169	175.3014	174.9410	2.5117e-01	1.9074e+00
51	TAI130042	170.8176	171.8025	171.3516	2.3207e-01	1.9069e+00
52	TRR130090	144.4156	145.8159	145.1820	3.3544e-01	1.9038e+00
53	TSI000001	46.7388	47.6057	47.2482	1.9845e-01	1.9003e+00
54	TSI000002	120.0796	121.4044	120.7876	2.7036e-01	1.9017e+00
55	TSO000001	45.5638	46.4355	45.9931	2.1372e-01	1.9004e+00
56	TSO000002	55.3026	56.2707	55.8768	2.2535e-01	1.9001e+00
57	TAF020136	92.6427	93.7957	93.0895	2.3654e-01	1.9004e+00
58	TAF120312	144.2361	145.6381	144.9473	3.1607e-01	1.9038e+00
59	TAF130312	155.2367	156.5269	155.8577	3.1245e-01	1.9050e+00
60	EMPTY	2.1143	2.1289	2.1213	3.1444e-03	0.0000e+00
61	EMPTY	2.1191	2.1289	2.1242	1.3811e-03	0.0000e+00
62	EMPTY	2.1240	2.1289	2.1271	2.3675e-03	0.0000e+00
63	EMPTY	2.1338	2.1387	2.1343	1.4797e-03	0.0000e+00
64	EMPTY	1.0596	1.0645	1.0601	1.4797e-03	0.0000e+00
65	EMPTY	1.0742	1.0840	1.0783	2.0598e-03	0.0000e+00
66	EMPTY	1.0889	1.0938	1.0894	1.4797e-03	0.0000e+00
67	EMPTY	1.1035	1.1084	1.1036	6.9053e-04	0.0000e+00
68	EMPTY	1.1133	1.1182	1.1139	1.6028e-03	0.0000e+00
69	EMPTY	1.1279	1.1328	1.1285	1.6028e-03	0.0000e+00
70	EMPTY	1.1377	1.1426	1.1421	1.4797e-03	0.0000e+00
71	EMPTY	1.1572	1.1621	1.1620	6.9053e-04	0.0000e+00
72	EMPTY	1.1670	1.1768	1.1719	9.8648e-04	0.0000e+00
73	EMPTY	1.1865	1.1865	1.1865	0.0000e+00	0.0000e+00
74	EMPTY	1.1963	1.2012	1.1996	2.3008e-03	0.0000e+00
75	EMPTY	1.2109	1.2158	1.2124	2.2603e-03	0.0000e+00
76	EMPTY	1.2207	1.2256	1.2249	1.7115e-03	0.0000e+00
77	EMPTY	1.2402	1.2451	1.2403	6.9053e-04	0.0000e+00
78	EMPTY	1.2549	1.2598	1.2597	6.9053e-04	0.0000e+00
79	EMPTY	1.2793	1.2842	1.2795	9.6655e-04	0.0000e+00
80	PAN020136	-9.5396	-8.7004	-9.1062	1.8779e-01	8.7030e-01
81	PAN050136	-18.5287	-17.7658	-18.1045	2.0047e-01	1.6806e+00
82	PAN070136	-12.0262	-11.5684	-11.8492	9.1760e-02	8.7050e-01
83	PAN080136	-6.0960	-5.7145	-5.9236	1.0202e-01	8.7013e-01
84	PAN090136	-6.7768	-6.4716	-6.6395	6.1655e-02	8.7016e-01
85	PAN100136	-6.1753	-5.9464	-6.0807	6.8170e-02	8.7013e-01
86	PAN105136	-3.0040	-2.6989	-2.8743	7.4322e-02	8.7003e-01
87	PAN110136	-3.1860	-2.8045	-3.0120	8.4481e-02	8.7003e-01
88	PAN115136	-2.6372	-2.2558	-2.4435	8.3305e-02	8.7002e-01
89	PAN120136	-3.6437	-3.4148	-3.5414	6.6494e-02	8.7005e-01
90	PAN125136	-2.9659	-2.7370	-2.8514	7.1054e-02	8.7003e-01
91	PAN130136	-3.1698	-2.8646	-3.0187	8.5111e-02	8.7003e-01
92	PAN120048	-6.1474	-5.7659	-5.9521	9.1397e-02	8.7013e-01
93	PAN130048	-7.2844	-6.9030	-7.0861	9.5016e-02	8.7018e-01
94	PAN120224	-6.1914	-5.9625	-6.0922	6.4018e-02	8.7013e-01
95	PAN130224	-6.3470	-6.0418	-6.1654	7.0449e-02	8.7014e-01
96	PAN120312	-5.8672	-5.4857	-5.6566	8.2373e-02	8.7011e-01
97	PAN130312	-5.7776	-5.4724	-5.6403	6.7187e-02	8.7011e-01
98	PAB000136	59.8322	60.2442	60.0336	7.9017e-02	5.9910e-01
99	PAB100136	61.9062	62.0893	61.9813	5.0452e-02	6.0034e-01
100	PAB125136	62.4563	62.6852	62.5836	4.9190e-02	6.0073e-01

Test: May07_04

sum1

Date: Mon May 7 13:43:54 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6429	60.2532	59.9871	1.5537e-01	7.6485e-01
102	PRV000001	19.6296	19.6296	19.6296	5.7801e-06	7.5160e-01
103	PSR000001	62.2839	62.4060	62.4036	1.7263e-02	7.6605e-01
104	PFM000001	9.6060	10.0637	9.8129	1.0595e-01	5.0060e-01
105	PAN000136	-78.1104	-72.1595	-75.0708	1.3234e+00	4.9236e+00
106	PFM000002	9.8236	10.0585	9.9387	5.2410e-02	2.0154e-01
107	EMPTY	-0.0049	0.0049	-0.0028	3.1335e-03	0.0000e+00
108	EMPTY	-9.6875	-9.1406	-9.3890	1.3959e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	-0.0002	1.3811e-03	0.0000e+00
112	VPW000001	100.2103	100.6009	100.3041	1.0617e-01	1.0091e+00
113	VPW000002	119.5275	119.9181	119.6915	9.9512e-02	1.0825e+00
114	VPW000003	147.4835	147.8741	147.6983	1.1334e-01	1.2006e+00
115	VPW000004	105.1833	105.7692	105.3864	1.1811e-01	1.0276e+00
116	VPW000005	139.8100	140.3959	140.0952	1.2608e-01	1.1673e+00
117	VPW000006	146.4318	147.0177	146.7716	1.3560e-01	1.1965e+00
118	IPW000001	529.9111	535.7682	533.1130	1.0988e+00	9.1295e+00
119	IPW000002	1319.5085	1325.3624	1322.7866	1.3904e+00	1.3222e+01
120	IPW000003	1340.1000	1344.0000	1342.5571	1.2953e+00	1.3345e+01
121	IPW000004	380.9439	382.4087	381.6862	2.9986e-01	3.6183e+00
122	IPW000005	254.8949	255.8714	255.5100	2.5740e-01	2.8416e+00
123	IPW000006	267.9162	269.3810	268.7462	3.4527e-01	2.9168e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	3.8066e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.0389e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0184	3.3540e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0178	3.2359e-03	0.0000e+00
128	IHT000001	132.0838	134.4276	133.0135	5.5322e-01	4.3104e+00
129	IHT000002	132.4557	134.6041	133.4673	5.3625e-01	4.3118e+00
130	IHT000003	131.6106	133.9543	132.6964	5.8415e-01	4.3094e+00
131	IHT000004	132.0988	134.8332	133.2668	6.7021e-01	4.3111e+00
132	IHT000005	129.6725	132.2115	130.7818	6.0931e-01	4.3035e+00
133	IHT000006	125.7136	128.0574	126.8309	5.4539e-01	4.2917e+00
134	IHT000007	130.2171	132.5608	131.4164	5.2941e-01	4.3055e+00
135	IHT000008	130.6303	132.9740	131.5756	5.0895e-01	4.3060e+00
136	IHT000009	131.4829	133.6313	132.4048	4.9291e-01	4.3085e+00
137	IHT000010	130.5025	132.8463	131.4634	5.7160e-01	4.3056e+00
138	IHT000011	134.7356	136.8840	135.5441	5.6222e-01	4.3182e+00
139	IHT000012	128.4405	130.7842	129.4404	6.1084e-01	4.2995e+00
140	IHT000013	91.8570	94.5913	93.0015	5.9452e-01	4.2042e+00
141	IHT000014	128.0086	130.5476	129.1414	6.0102e-01	4.2986e+00
142	IHT000015	95.9097	98.4488	96.9409	5.7998e-01	4.2130e+00
143	IHT000016	87.2521	89.5958	88.2951	5.5046e-01	4.1940e+00
144	IHT000017	106.2200	108.7590	107.3644	5.6498e-01	4.2382e+00
145	IHT000018	108.2294	110.3779	109.3271	5.9174e-01	4.2433e+00
146	IHT000019	104.3307	105.8932	105.0455	3.8178e-01	4.2324e+00
147	IHT000020	107.1965	108.7590	107.8449	3.9348e-01	4.2395e+00
148	IHT000021	-2.5804	-0.2366	-1.5062	5.2977e-01	4.1000e+00
149	IHT000022	91.1771	93.1303	92.0483	4.0666e-01	4.2021e+00
150	IHT000023	106.5730	108.3308	107.2684	4.0847e-01	4.2380e+00
151	IHT000024	71.6984	73.4563	72.3703	3.9094e-01	4.1634e+00
152	IHT000025	103.6734	105.4312	104.6968	3.7963e-01	4.2316e+00
153	IHT000026	105.4612	107.4144	106.5316	4.2543e-01	4.2361e+00
154	IHT000027	88.4615	90.2193	89.5279	4.1799e-01	4.1966e+00
155	IHT000028	89.9564	92.6908	91.3627	5.9320e-01	4.2006e+00

Test: May07_04

sum1

Date: Mon May 7 13:43:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4312	108.1656	106.5952	5.5937e-01	4.2363e+00
157	IHT000030	107.6435	110.1825	108.8232	5.7718e-01	4.2420e+00
158	IHT000031	106.5279	108.6764	107.6646	5.2302e-01	4.2390e+00
159	IHT000032	107.5984	110.3328	109.0242	5.6117e-01	4.2425e+00
160	IHT000033	107.5834	110.3178	108.9780	5.6360e-01	4.2424e+00
161	IHT000034	93.9566	96.1050	95.1363	4.6515e-01	4.2089e+00
162	IHT000035	124.2000	126.1531	125.3407	4.7080e-01	4.2873e+00
163	IHT000036	92.7960	94.9444	93.7686	4.3493e-01	4.2059e+00

Velocity 1 = 8.0246 (ft/sec) (+/- 3.0559 %)
 Velocity 2 = 8.0759 (ft/sec) (+/- 1.9029 %)
 Pressure drop = -2.7083 (psi)
 Tsat in = 292.7944 (deg F) Tsat out = 295.6105 (deg F)
 Phi inner = 102.3818 (kBtu/hr-ft2) (+/- 1.4081 %)
 Phi outer = 100.8200 (kBtu/hr-ft2) (+/- 1.6199 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.7562	75.3940	75.0623	1.7266e-01	1.9000e+00
1	TRF000002	74.8440	75.2669	75.0132	1.2082e-01	1.9000e+00
2	TFM000001	86.4524	87.6045	87.1144	2.0567e-01	1.9002e+00
3	TIN000001	86.0863	86.8226	86.4609	1.3789e-01	1.9002e+00
4	TRV000001	86.6080	87.3414	86.9224	1.9358e-01	1.9002e+00
5	TSR000001	117.6819	118.7018	118.1716	2.0928e-01	1.9016e+00
6	TAO020136	142.5263	143.2316	142.8691	2.0136e-01	1.9036e+00
7	TAO050136	146.8976	147.8951	147.4203	2.4072e-01	1.9040e+00
8	TAO070136	146.9249	147.7283	147.3147	2.0139e-01	1.9040e+00
9	TAO080136	164.9524	165.6425	165.2522	1.7113e-01	1.9061e+00
10	TAO090136	168.3214	169.2076	168.8488	1.9562e-01	1.9066e+00
11	TAO100136	164.5246	165.6102	165.1367	2.0731e-01	1.9061e+00
12	TAO105136	168.1665	169.5482	168.5811	2.5691e-01	1.9065e+00
13	TAO110136	172.3584	173.1417	172.7970	1.9170e-01	1.9071e+00
14	TAO115136	171.0606	171.9482	171.5734	1.8583e-01	1.9069e+00
15	TAO120136	179.0959	179.7777	179.3996	1.2416e-01	1.9080e+00
16	TAO125136	174.2435	175.0285	174.6595	2.1371e-01	1.9074e+00
17	TAO130136	171.4658	172.1491	171.7781	1.6840e-01	1.9070e+00
18	TAO120048	179.8445	180.7246	180.2983	1.9815e-01	1.9082e+00
19	TAO130048	175.6960	176.2834	175.9704	1.5455e-01	1.9076e+00
20	TAO120224	178.7448	179.9185	179.4960	2.4403e-01	1.9081e+00
21	TAO130224	169.5679	170.5461	170.1236	2.3602e-01	1.9067e+00
22	TAO120312	179.4870	180.4663	180.1256	2.2044e-01	1.9082e+00
23	TAO130312	177.9267	178.6113	178.2946	1.4192e-01	1.9079e+00
24	TRT020000	140.2922	141.1003	140.6843	2.1644e-01	1.9034e+00
25	TRT070000	160.6267	161.4256	161.0615	2.1847e-01	1.9056e+00
26	TRT100000	177.0010	177.8822	177.4240	1.9213e-01	1.9078e+00
27	TRT120000	178.6470	179.7235	179.1834	2.1849e-01	1.9080e+00
28	TRT125000	186.6627	187.3414	187.0384	1.7771e-01	1.9092e+00
29	TRT130000	180.2502	181.0317	180.5591	1.4542e-01	1.9082e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2912e-01	1.9011e+00
31	TAF050136	109.9020	110.9300	110.5019	2.4683e-01	1.9011e+00
32	TAF070136	119.6063	120.4216	120.0631	2.1113e-01	1.9017e+00
33	TAF080136	164.0365	164.9221	164.5873	1.8542e-01	1.9060e+00
34	TAF090136	127.7011	128.9189	128.4280	3.1170e-01	1.9023e+00
35	TAF100136	132.4561	133.4706	132.9146	2.2661e-01	1.9027e+00
36	TAF105136	134.6212	135.5267	135.0317	2.6375e-01	1.9028e+00
37	TAF110136	146.9808	147.8799	147.4760	1.9137e-01	1.9040e+00
38	TAF115136	139.6839	140.5889	140.2108	2.1936e-01	1.9033e+00
39	TAF120136	157.7047	158.5977	158.0344	1.9770e-01	1.9052e+00
40	TAF125136	144.4987	145.7950	145.1856	2.8044e-01	1.9038e+00
41	TAF130136	147.1262	148.3253	147.7778	2.2144e-01	1.9041e+00
42	TAF120048	144.9942	146.0034	145.3776	2.6107e-01	1.9038e+00
43	TAF130048	149.4439	150.4425	149.9315	1.8673e-01	1.9043e+00
44	TAF120224	144.3777	145.5808	145.0955	2.7283e-01	1.9038e+00
45	TAF130224	147.9148	149.1207	148.3615	2.2528e-01	1.9041e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	1.9153e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5138	1.2271e-01	1.9011e+00
48	TAI130138	174.1687	175.5416	174.8119	3.0459e-01	1.9074e+00
49	TAI130226	172.3413	173.1256	172.6712	2.1757e-01	1.9071e+00
50	TAI130314	175.1041	176.0880	175.5922	2.6663e-01	1.9075e+00
51	TAI130042	171.6051	172.4915	172.0307	2.2884e-01	1.9070e+00
52	TRR130090	143.7153	147.5141	145.0882	9.7355e-01	1.9038e+00
53	TSI000001	46.8483	47.7139	47.2855	1.9932e-01	1.9003e+00
54	TSI000002	118.3487	120.6936	119.4214	5.2978e-01	1.9016e+00
55	TSO000001	45.4540	46.4347	45.9991	2.0874e-01	1.9004e+00
56	TSO000002	55.4100	56.3780	55.9738	2.5475e-01	1.9001e+00
57	TAF020136	93.0625	94.2151	93.5945	2.9097e-01	1.9004e+00
58	TAF120312	145.0370	146.1384	145.5817	3.0321e-01	1.9038e+00
59	TAF130312	155.8315	157.1218	156.4948	2.5302e-01	1.9050e+00
60	EMPTY	2.1289	2.1436	2.1340	3.4116e-03	0.0000e+00
61	EMPTY	2.1338	2.1387	2.1367	2.4164e-03	0.0000e+00
62	EMPTY	2.1338	2.1436	2.1396	2.2058e-03	0.0000e+00
63	EMPTY	2.1436	2.1484	2.1467	2.3675e-03	0.0000e+00
64	EMPTY	1.0645	1.0693	1.0653	1.8950e-03	0.0000e+00
65	EMPTY	1.0791	1.0840	1.0830	1.9730e-03	0.0000e+00
66	EMPTY	1.0938	1.0986	1.0947	1.9730e-03	0.0000e+00
67	EMPTY	1.1084	1.1133	1.1086	9.6655e-04	0.0000e+00
68	EMPTY	1.1182	1.1230	1.1184	9.6655e-04	0.0000e+00
69	EMPTY	1.1328	1.1426	1.1333	1.7784e-03	0.0000e+00
70	EMPTY	1.1426	1.1475	1.1471	1.3381e-03	0.0000e+00
71	EMPTY	1.1621	1.1670	1.1669	6.9053e-04	0.0000e+00
72	EMPTY	1.1768	1.1768	1.1768	0.0000e+00	0.0000e+00
73	EMPTY	1.1914	1.1963	1.1915	6.9053e-04	0.0000e+00
74	EMPTY	1.2012	1.2061	1.2029	2.3675e-03	0.0000e+00
75	EMPTY	1.2158	1.2207	1.2161	1.1714e-03	0.0000e+00
76	EMPTY	1.2256	1.2305	1.2287	2.3675e-03	0.0000e+00
77	EMPTY	1.2402	1.2451	1.2449	9.6655e-04	0.0000e+00
78	EMPTY	1.2598	1.2646	1.2637	1.9730e-03	0.0000e+00
79	EMPTY	1.2793	1.2891	1.2842	9.8648e-04	0.0000e+00
80	PAN020136	-9.4633	-8.9292	-9.2161	1.2094e-01	8.7031e-01
81	PAN050136	-18.8339	-17.7658	-18.2174	2.3061e-01	1.6806e+00
82	PAN070136	-12.4077	-11.6447	-11.8843	1.3080e-01	8.7051e-01
83	PAN080136	-6.1723	-5.7908	-5.9617	9.9368e-02	8.7013e-01
84	PAN090136	-6.8531	-6.4716	-6.6639	8.3348e-02	8.7016e-01
85	PAN100136	-6.3279	-6.0227	-6.1128	7.9631e-02	8.7013e-01
86	PAN105136	-3.0040	-2.6989	-2.8652	7.6589e-02	8.7003e-01
87	PAN110136	-3.1860	-2.9571	-3.0639	7.5511e-02	8.7003e-01
88	PAN115136	-2.7135	-2.3321	-2.4755	9.0719e-02	8.7002e-01
89	PAN120136	-3.7200	-3.4148	-3.5445	6.2135e-02	8.7005e-01
90	PAN125136	-3.0422	-2.7370	-2.8697	8.5556e-02	8.7003e-01
91	PAN130136	-3.2460	-2.7883	-3.0431	8.2445e-02	8.7003e-01
92	PAN120048	-6.1474	-5.8422	-5.9963	8.9200e-02	8.7013e-01
93	PAN130048	-7.2844	-6.9030	-7.1257	7.8353e-02	8.7018e-01
94	PAN120224	-6.2677	-5.8862	-6.1105	8.0698e-02	8.7013e-01
95	PAN130224	-6.3470	-6.0418	-6.1822	7.1237e-02	8.7014e-01
96	PAN120312	-6.0198	-5.5620	-5.7177	9.9845e-02	8.7012e-01
97	PAN130312	-5.8539	-5.4724	-5.6479	6.4018e-02	8.7011e-01
98	PAB000136	60.0153	60.3815	60.1682	7.7713e-02	5.9919e-01
99	PAB100136	62.0435	62.2267	62.1497	5.2674e-02	6.0045e-01
100	PAB125136	62.6852	62.8225	62.7557	3.9465e-02	6.0084e-01

Test: May07_04

sum2

Date: Mon May 7 13:43:54 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.4974	60.1287	1.7868e-01	7.6492e-01
102	PRV000001	19.5075	19.7517	19.6247	3.4527e-02	7.5160e-01
103	PSR000001	62.5281	62.6502	62.6038	5.9853e-02	7.6616e-01
104	PFM000001	9.4229	10.0637	9.7726	1.2365e-01	5.0060e-01
105	PAN000136	-77.6526	-72.1595	-74.9793	1.2177e+00	4.9236e+00
106	PFM000002	9.7565	10.0417	9.8994	6.8075e-02	2.0153e-01
107	EMPTY	-0.0049	0.0049	-0.0001	4.2419e-03	0.0000e+00
108	EMPTY	-9.6973	-9.1260	-9.3770	1.3746e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0036	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	-0.0001	1.2041e-03	0.0000e+00
112	VPW000001	99.4291	100.9916	100.3314	4.5658e-01	1.0092e+00
113	VPW000002	119.1369	120.1134	119.7618	2.6762e-01	1.0828e+00
114	VPW000003	147.2881	148.4600	147.7959	2.7902e-01	1.2010e+00
115	VPW000004	104.2067	105.9645	105.3434	4.2442e-01	1.0274e+00
116	VPW000005	139.0287	140.5912	140.0561	3.9619e-01	1.1672e+00
117	VPW000006	146.0412	147.2130	146.7638	3.1133e-01	1.1965e+00
118	IPW000001	524.0541	537.7205	530.6531	2.9223e+00	9.1205e+00
119	IPW000002	1305.8497	1327.3136	1318.3378	4.7958e+00	1.3194e+01
120	IPW000003	1334.2500	1349.8500	1342.4399	3.1517e+00	1.3345e+01
121	IPW000004	375.5728	382.4087	379.4304	1.8196e+00	3.6035e+00
122	IPW000005	253.4302	257.3361	255.4417	8.8026e-01	2.8412e+00
123	IPW000006	265.9631	269.8693	268.1212	9.2060e-01	2.9132e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.7226e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	3.2658e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0189	3.3656e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4173e-03	0.0000e+00
128	IHT000001	131.8885	134.6229	133.1385	6.2515e-01	4.3108e+00
129	IHT000002	132.2603	135.3853	133.6197	6.7192e-01	4.3122e+00
130	IHT000003	131.4153	134.1496	132.7980	6.0598e-01	4.3097e+00
131	IHT000004	132.0988	135.0285	133.3918	6.2998e-01	4.3115e+00
132	IHT000005	129.8678	132.2115	130.8326	5.7509e-01	4.3037e+00
133	IHT000006	125.9089	128.2527	126.9051	5.5418e-01	4.2919e+00
134	IHT000007	130.2171	132.9514	131.4671	6.0746e-01	4.3056e+00
135	IHT000008	130.6303	133.3646	131.6967	5.9348e-01	4.3063e+00
136	IHT000009	131.4829	134.2172	132.4985	5.7318e-01	4.3088e+00
137	IHT000010	130.5025	133.0416	131.6470	6.1890e-01	4.3062e+00
138	IHT000011	134.3450	136.8840	135.7160	5.8192e-01	4.3188e+00
139	IHT000012	128.0499	130.9796	129.5225	6.4863e-01	4.2997e+00
140	IHT000013	91.2710	94.3960	93.0835	6.2520e-01	4.2043e+00
141	IHT000014	127.2273	130.3523	129.2235	6.4149e-01	4.2988e+00
142	IHT000015	95.1285	98.2535	96.9995	6.2277e-01	4.2132e+00
143	IHT000016	87.0568	89.4005	88.3185	6.1284e-01	4.1940e+00
144	IHT000017	105.8293	108.9543	107.0363	6.8764e-01	4.2374e+00
145	IHT000018	108.2294	110.3779	109.2138	5.3373e-01	4.2430e+00
146	IHT000019	103.9400	105.6978	105.0298	4.6870e-01	4.2324e+00
147	IHT000020	106.8059	108.7590	107.8371	5.0384e-01	4.2394e+00
148	IHT000021	-2.7757	-0.2366	-1.4280	6.1289e-01	4.1000e+00
149	IHT000022	90.5912	93.1303	92.0327	6.1243e-01	4.2020e+00
150	IHT000023	106.1824	108.1355	107.3153	4.6017e-01	4.2381e+00
151	IHT000024	71.3078	73.0656	72.3821	4.3807e-01	4.1634e+00
152	IHT000025	103.8687	105.6265	104.6929	4.3277e-01	4.2316e+00
153	IHT000026	105.4612	107.2190	106.4652	4.5165e-01	4.2360e+00
154	IHT000027	88.0709	90.6100	89.3834	5.4682e-01	4.1963e+00
155	IHT000028	89.5658	92.8861	91.2065	6.6263e-01	4.2002e+00

Test: May07_04

sum2

Date: Mon May 7 13:43:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4312	107.9703	106.4819	5.8646e-01	4.2360e+00
157	IHT000030	107.6435	110.1825	108.6240	5.6011e-01	4.2415e+00
158	IHT000031	106.5279	109.2623	107.5591	5.7864e-01	4.2387e+00
159	IHT000032	107.7937	110.3328	108.8992	5.8608e-01	4.2422e+00
160	IHT000033	107.7787	110.1225	108.8295	5.9306e-01	4.2420e+00
161	IHT000034	93.9566	96.4957	95.1519	5.6859e-01	4.2090e+00
162	IHT000035	124.2000	126.7390	125.3446	5.4392e-01	4.2873e+00
163	IHT000036	92.6006	94.9444	93.7139	5.5278e-01	4.2057e+00

Test: May07_04 dif Date: Mon May 7 13:43:54 1990 Page: 1

Velocity 1 = 0.015900 (ft/sec)

Velocity 2 = 0.015300 (ft/sec)

Pressure Drop = 0.003300 (psi)

Tsat in = 0.148590 (deg F) Tsat out = 0.184906 (deg F)

Phi inner = 0.008598 (kBtu/hr-ft2) Phi outer = 0.332298 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1488	0.1986
1	TRF000002	0.1269	0.1695
2	TFM000001	0.6517	0.7537
3	TIN000001	0.6537	0.7618
4	TRV000001	0.6837	0.7928
5	TSR000001	2.1075	1.8158
6	TAO020136	0.5737	0.4032
7	TAO050136	0.6007	0.4091
8	TAO070136	1.1711	0.8013
9	TAO080136	0.5922	0.3596
10	TAO090136	0.6043	0.3592
11	TAO100136	0.6379	0.3878
12	TAO105136	0.7128	0.4246
13	TAO110136	0.6966	0.4048
14	TAO115136	0.7044	0.4122
15	TAO120136	0.6280	0.3513
16	TAO125136	0.6565	0.3773
17	TAO130136	0.6703	0.3917
18	TAO120048	0.6546	0.3644
19	TAO130048	0.6669	0.3804
20	TAO120224	0.7102	0.3972
21	TAO130224	0.7650	0.4517
22	TAO120312	0.6128	0.3414
23	TAO130312	0.6741	0.3795
24	TRT020000	0.5472	0.3905
25	TRT070000	0.5162	0.3215
26	TRT100000	0.6162	0.3485
27	TRT120000	0.6200	0.3472
28	TRT125000	0.6251	0.3353
29	TRT130000	0.6419	0.3568
30	EMPTY	0.0184	0.0464
31	TAF050136	0.6679	0.6081
32	TAF070136	0.5643	0.4722
33	TAF080136	0.5328	0.3248
34	TAF090136	0.7001	0.5481
35	TAF100136	0.6272	0.4741
36	TAF105136	0.5927	0.4409
37	TAF110136	0.6290	0.4283
38	TAF115136	0.6417	0.4598
39	TAF120136	0.5334	0.3387
40	TAF125136	0.5769	0.3989
41	TAF130136	0.7137	0.4853
42	TAF120048	0.7044	0.4869
43	TAF130048	0.7208	0.4831
44	TAF120224	0.7360	0.5098
45	TAF130224	0.8184	0.5547

#	Name	Abs Diff	%Diff
46	EMPTY	0.0552	0.1451
47	EMPTY	0.0642	0.1627
48	TAI130138	0.7126	0.4093
49	TAI130226	0.5625	0.3268
50	TAI130314	0.6512	0.3722
51	TAI130042	0.6791	0.3963
52	TRR130090	0.0938	0.0646
53	TSI000001	0.0373	0.0789
54	TSI000002	1.3662	1.1311
55	TSO000001	0.0060	0.0130
56	TSO000002	0.0970	0.1736
57	TAF020136	0.5050	0.5425
58	TAF120312	0.6344	0.4377
59	TAF130312	0.6371	0.4088
60	EMPTY	0.0127	0.5987
61	EMPTY	0.0125	0.5884
62	EMPTY	0.0125	0.5877
63	EMPTY	0.0124	0.5810
64	EMPTY	0.0052	0.4905
65	EMPTY	0.0047	0.4359
66	EMPTY	0.0053	0.4865
67	EMPTY	0.0050	0.4531
68	EMPTY	0.0045	0.4040
69	EMPTY	0.0048	0.4253
70	EMPTY	0.0050	0.4378
71	EMPTY	0.0049	0.4217
72	EMPTY	0.0049	0.4181
73	EMPTY	0.0050	0.4214
74	EMPTY	0.0033	0.2751
75	EMPTY	0.0037	0.3052
76	EMPTY	0.0038	0.3102
77	EMPTY	0.0046	0.3709
78	EMPTY	0.0040	0.3175
79	EMPTY	0.0047	0.3673
80	PAN020136	0.1099	1.2069
81	PAN050136	0.1129	0.6236
82	PAN070136	0.0351	0.2962
83	PAN080136	0.0381	0.6432
84	PAN090136	0.0244	0.3675
85	PAN100136	0.0321	0.5279
86	PAN105136	0.0091	0.3166
87	PAN110136	0.0519	1.7231
88	PAN115136	0.0320	1.3096
89	PAN120136	0.0031	0.0875
90	PAN125136	0.0183	0.6418
91	PAN130136	0.0244	0.8083
92	PAN120048	0.0442	0.7426
93	PAN130048	0.0396	0.5588
94	PAN120224	0.0183	0.3004
95	PAN130224	0.0168	0.2725
96	PAN120312	0.0611	1.0802
97	PAN130312	0.0076	0.1348
98	PAB000136	0.1346	0.2242
99	PAB100136	0.1684	0.2717
100	PAB125136	0.1721	0.2750

Test: May07_04

dif

Date: Mon May 7 13:43:54 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1416	0.2361
102	PRV000001	0.0049	0.0250
103	PSR000001	0.2002	0.3208
104	PFM000001	0.0403	0.4107
105	PAN000136	0.0915	0.1219
106	PFM000002	0.0393	0.3954
107	EMPTY	0.0027	96.4286
108	EMPTY	0.0120	0.1278
109	EMPTY	0.0020	125.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.0273	0.0272
113	VPW000002	0.0703	0.0587
114	VPW000003	0.0976	0.0661
115	VPW000004	0.0430	0.0408
116	VPW000005	0.0391	0.0279
117	VPW000006	0.0078	0.0053
118	IPW000001	2.4599	0.4614
119	IPW000002	4.4489	0.3363
120	IPW000003	0.1172	0.0087
121	IPW000004	2.2558	0.5910
122	IPW000005	0.0683	0.0267
123	IPW000006	0.6250	0.2326
124	EMPTY	0.0007	3.0973
125	EMPTY	0.0001	0.6849
126	EMPTY	0.0005	2.7174
127	EMPTY	0.0022	12.3596
128	IHT000001	0.1250	0.0940
129	IHT000002	0.1524	0.1142
130	IHT000003	0.1016	0.0766
131	IHT000004	0.1250	0.0938
132	IHT000005	0.0508	0.0388
133	IHT000006	0.0742	0.0585
134	IHT000007	0.0507	0.0386
135	IHT000008	0.1211	0.0920
136	IHT000009	0.0937	0.0708
137	IHT000010	0.1836	0.1397
138	IHT000011	0.1719	0.1268
139	IHT000012	0.0821	0.0634
140	IHT000013	0.0820	0.0882
141	IHT000014	0.0821	0.0636
142	IHT000015	0.0586	0.0604
143	IHT000016	0.0234	0.0265
144	IHT000017	0.3281	0.3056
145	IHT000018	0.1133	0.1036
146	IHT000019	0.0157	0.0149
147	IHT000020	0.0078	0.0072
148	IHT000021	0.0782	5.1919
149	IHT000022	0.0156	0.0169
150	IHT000023	0.0469	0.0437
151	IHT000024	0.0118	0.0163
152	IHT000025	0.0039	0.0037
153	IHT000026	0.0664	0.0623
154	IHT000027	0.1445	0.1614
155	IHT000028	0.1562	0.1710

Test: May07_04 dif Date: Mon May 7 13:43:54 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1133	0.1063
157	IHT000030	0.1992	0.1830
158	IHT000031	0.1055	0.0980
159	IHT000032	0.1250	0.1147
160	IHT000033	0.1485	0.1363
161	IHT000034	0.0156	0.0164
162	IHT000035	0.0039	0.0031
163	IHT000036	0.0547	0.0583

Test: May07_05

sum1

Date: Mon May 7 13:55:50 1990

Page: 1

Velocity 1 = 6.0887 (ft/sec) (+/- 4.7783 %)
Velocity 2 = 6.1373 (ft/sec) (+/- 2.3041 %)
Pressure drop = -3.7744 (psi)
Tsat in = 292.8812 (deg F) Tsat out = 296.7878 (deg F)
Phi inner = 101.0767 (kBtu/hr-ft2) (+/- 1.4117 %)
Phi outer = 100.6327 (kBtu/hr-ft2) (+/- 1.6196 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.7562	75.3940	75.0793	1.6766e-01	1.9000e+00
1	TRF000002	74.8440	75.2669	74.9666	1.2879e-01	1.9000e+00
2	TFM000001	86.2429	87.1853	86.8150	2.0435e-01	1.9002e+00
3	TIN000001	85.8761	86.5072	86.1604	1.7792e-01	1.9002e+00
4	TRV000001	86.1902	86.9239	86.5611	1.5989e-01	1.9002e+00
5	TSR000001	118.2933	119.5174	118.7970	2.7355e-01	1.9016e+00
6	TAO020136	156.1499	157.2459	156.6499	2.4361e-01	1.9051e+00
7	TAO050136	163.2470	164.1334	163.5880	2.0419e-01	1.9059e+00
8	TAO070136	160.3187	161.5113	160.8897	2.5461e-01	1.9056e+00
9	TAO080136	185.3285	186.2030	185.7425	1.8883e-01	1.9090e+00
10	TAO090136	190.1858	190.8653	190.5062	1.7543e-01	1.9098e+00
11	TAO100136	186.8571	187.7319	187.2872	2.1340e-01	1.9092e+00
12	TAO105136	190.7934	191.7648	191.2808	2.1894e-01	1.9099e+00
13	TAO110136	196.4008	197.1686	196.7523	2.0299e-01	1.9108e+00
14	TAO115136	195.0374	196.2010	195.6212	2.6754e-01	1.9106e+00
15	TAO120136	204.1016	205.0583	204.6498	1.8001e-01	1.9122e+00
16	TAO125136	199.5747	200.6344	200.1815	2.3677e-01	1.9114e+00
17	TAO130136	195.7532	196.4275	196.1089	1.5765e-01	1.9107e+00
18	TAO120048	205.3051	206.1689	205.7912	1.8029e-01	1.9124e+00
19	TAO130048	200.9694	201.7394	201.4063	1.6627e-01	1.9116e+00
20	TAO120224	204.4404	205.3058	204.7579	1.9829e-01	1.9122e+00
21	TAO130224	193.5880	195.1279	194.1175	2.4132e-01	1.9103e+00
22	TAO120312	205.6831	206.5480	206.0772	2.0754e-01	1.9124e+00
23	TAO130312	203.1864	204.0509	203.5884	1.6201e-01	1.9120e+00
24	TRT020000	153.5641	154.5629	154.0138	2.6192e-01	1.9047e+00
25	TRT070000	179.6624	180.7448	180.3253	2.3568e-01	1.9082e+00
26	TRT100000	200.3694	201.2353	200.8211	1.6289e-01	1.9115e+00
27	TRT120000	204.3296	205.0990	204.7086	1.8046e-01	1.9122e+00
28	TRT125000	214.0357	214.8915	214.4253	1.9042e-01	1.9140e+00
29	TRT130000	205.8552	206.4316	206.1032	1.4256e-01	1.9124e+00
30	EMPTY	39.1464	40.0646	39.5597	2.3190e-01	1.9011e+00
31	TAF050136	117.1732	118.2975	117.6984	2.4066e-01	1.9015e+00
32	TAF070136	129.7412	130.9543	130.3494	2.1066e-01	1.9025e+00
33	TAF080136	184.3983	185.4639	184.9415	2.2557e-01	1.9089e+00
34	TAF090136	140.4213	141.7278	140.8942	3.2231e-01	1.9034e+00
35	TAF100136	147.0968	148.2010	147.6487	2.8692e-01	1.9041e+00
36	TAF105136	149.9745	151.0650	150.5403	2.4564e-01	1.9044e+00
37	TAF110136	165.9982	166.9825	166.5048	2.2148e-01	1.9063e+00
38	TAF115136	156.6707	157.8627	157.2214	2.5626e-01	1.9051e+00
39	TAF120136	179.3245	181.0807	180.2320	3.0164e-01	1.9082e+00
40	TAF125136	163.1116	164.3922	163.8895	3.1314e-01	1.9059e+00
41	TAF130136	166.6693	167.5560	167.1121	2.2014e-01	1.9063e+00
42	TAF120048	163.4614	164.6543	164.0765	2.6343e-01	1.9060e+00
43	TAF130048	169.7515	170.7358	170.1356	2.2503e-01	1.9067e+00
44	TAF120224	163.0008	164.0890	163.5689	2.6410e-01	1.9059e+00
45	TAF130224	167.3954	168.7820	167.9249	3.0726e-01	1.9064e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0526	2.0013e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5552	1.0668e-01	1.9011e+00
48	TAI130138	199.9458	201.1988	200.5375	3.1998e-01	1.9114e+00
49	TAI130226	197.7553	199.0055	198.3461	2.6214e-01	1.9111e+00
50	TAI130314	200.6626	201.9192	201.3216	2.9585e-01	1.9116e+00
51	TAI130042	196.9681	198.0316	197.5694	2.5559e-01	1.9109e+00
52	TRR130090	151.5986	154.3815	152.7742	5.3580e-01	1.9046e+00
53	TSI000001	47.0640	47.8226	47.3698	1.7999e-01	1.9003e+00
54	TSI000002	122.9302	124.2507	123.7447	3.0631e-01	1.9019e+00
55	TSO000001	45.4546	46.3258	45.9535	2.1785e-01	1.9004e+00
56	TSO000002	57.0218	57.9885	57.5393	2.0777e-01	1.9001e+00
57	TAF020136	95.4728	96.7285	96.1073	2.9778e-01	1.9005e+00
58	TAF120312	163.9043	165.0878	164.4627	3.3552e-01	1.9060e+00
59	TAF130312	177.7776	179.2421	178.5451	3.6360e-01	1.9079e+00
60	EMPTY	2.6709	2.6807	2.6768	3.4173e-03	0.0000e+00
61	EMPTY	2.6709	2.6807	2.6768	2.7902e-03	0.0000e+00
62	EMPTY	2.6709	2.6855	2.6758	3.1195e-03	0.0000e+00
63	EMPTY	2.6758	2.6855	2.6804	3.1828e-03	0.0000e+00
64	EMPTY	1.2988	1.3037	1.2993	1.4797e-03	0.0000e+00
65	EMPTY	1.3135	1.3184	1.3152	2.3675e-03	0.0000e+00
66	EMPTY	1.3232	1.3330	1.3261	2.6267e-03	0.0000e+00
67	EMPTY	1.3379	1.3428	1.3395	2.3008e-03	0.0000e+00
68	EMPTY	1.3428	1.3525	1.3480	1.6624e-03	0.0000e+00
69	EMPTY	1.3574	1.3623	1.3620	1.1714e-03	0.0000e+00
70	EMPTY	1.3721	1.3770	1.3726	1.4797e-03	0.0000e+00
71	EMPTY	1.3867	1.3916	1.3913	1.1714e-03	0.0000e+00
72	EMPTY	1.3965	1.4063	1.4009	1.7784e-03	0.0000e+00
73	EMPTY	1.4111	1.4160	1.4150	1.9730e-03	0.0000e+00
74	EMPTY	1.4209	1.4258	1.4257	6.9053e-04	0.0000e+00
75	EMPTY	1.4355	1.4404	1.4380	2.4662e-03	0.0000e+00
76	EMPTY	1.4453	1.4502	1.4481	2.4344e-03	0.0000e+00
77	EMPTY	1.4600	1.4648	1.4631	2.3675e-03	0.0000e+00
78	EMPTY	1.4795	1.4941	1.4801	2.3428e-03	0.0000e+00
79	EMPTY	1.4990	1.5039	1.4991	6.9053e-04	0.0000e+00
80	PAN020136	-13.2017	-12.7439	-13.0201	1.1420e-01	8.7061e-01
81	PAN050136	-25.7003	-25.0900	-25.3341	2.0908e-01	1.6812e+00
82	PAN070136	-16.9853	-16.3750	-16.6023	1.4168e-01	8.7099e-01
83	PAN080136	-8.6137	-8.2322	-8.4657	1.0387e-01	8.7026e-01
84	PAN090136	-8.9893	-8.7604	-8.8840	5.9478e-02	8.7028e-01
85	PAN100136	-8.6167	-8.1590	-8.3939	1.0089e-01	8.7025e-01
86	PAN105136	-4.3010	-3.9959	-4.1256	7.2706e-02	8.7006e-01
87	PAN110136	-4.3304	-4.1015	-4.2144	6.0173e-02	8.7006e-01
88	PAN115136	-4.0105	-3.7816	-3.8839	6.6494e-02	8.7005e-01
89	PAN120136	-4.4829	-4.1777	-4.2968	7.8836e-02	8.7007e-01
90	PAN125136	-4.4155	-4.1866	-4.2964	6.5685e-02	8.7007e-01
91	PAN130136	-4.2379	-4.0090	-4.0914	7.0365e-02	8.7006e-01
92	PAN120048	-8.8176	-8.5125	-8.6712	8.6975e-02	8.7027e-01
93	PAN130048	-9.4207	-9.0392	-9.2086	8.6220e-02	8.7030e-01
94	PAN120224	-8.4802	-8.1750	-8.3109	8.7587e-02	8.7025e-01
95	PAN130224	-8.5595	-8.1780	-8.3550	8.2200e-02	8.7025e-01
96	PAN120312	-8.3086	-7.9271	-8.1209	9.2752e-02	8.7024e-01
97	PAN130312	-8.2190	-7.8375	-7.9871	8.0033e-02	8.7023e-01
98	PAB000136	60.0611	60.4273	60.2469	6.3679e-02	5.9924e-01
99	PAB100136	62.9591	63.1422	63.0406	5.0899e-02	6.0103e-01
100	PAB125136	63.7838	63.9669	63.8589	5.1292e-02	6.0157e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.2532	60.0213	1.2874e-01	7.6486e-01
102	PRV000001	19.5075	19.6296	19.5100	1.7263e-02	7.5158e-01
103	PSR000001	63.7488	63.9929	63.8709	3.4877e-02	7.6681e-01
104	PFM000001	5.4861	5.7608	5.5850	7.5903e-02	5.0019e-01
105	PAN000136	-106.9495	-102.3719	-104.4959	1.1979e+00	4.9269e+00
106	PFM000002	5.5951	5.7797	5.6760	4.0637e-02	2.0050e-01
107	EMPTY	-0.0049	0.0049	0.0002	3.8155e-03	0.0000e+00
108	EMPTY	-9.7705	-9.0967	-9.4063	1.7356e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	99.8197	101.1869	100.4837	3.1567e-01	1.0097e+00
113	VPW000002	119.5275	120.3087	119.9298	2.1032e-01	1.0835e+00
114	VPW000003	147.4835	148.2647	147.8389	2.1135e-01	1.2012e+00
115	VPW000004	104.5974	106.3552	105.5192	4.0441e-01	1.0281e+00
116	VPW000005	139.4193	140.7865	140.1420	3.3540e-01	1.1675e+00
117	VPW000006	146.4318	147.6037	147.0216	2.5417e-01	1.1976e+00
118	IPW000001	541.6252	557.2440	548.6536	3.2286e+00	9.1868e+00
119	IPW000002	1282.4344	1301.9471	1290.3954	5.1977e+00	1.3020e+01
120	IPW000003	1316.7000	1328.3999	1321.7700	2.7009e+00	1.3215e+01
121	IPW000004	382.8970	389.2447	386.0319	1.6627e+00	3.6470e+00
122	IPW000005	253.4302	256.8478	254.8851	7.6079e-01	2.8381e+00
123	IPW000006	266.4514	268.4045	267.4278	5.3123e-01	2.9092e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.1828e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0137	3.1195e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	3.3613e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0161	2.4662e-03	0.0000e+00
128	IHT000001	131.3026	134.8182	133.0292	5.8840e-01	4.3104e+00
129	IHT000002	131.8697	135.1900	133.4830	5.5916e-01	4.3118e+00
130	IHT000003	131.2199	134.1496	132.6730	5.5826e-01	4.3093e+00
131	IHT000004	131.9035	134.8332	133.3644	5.6115e-01	4.3115e+00
132	IHT000005	129.2819	132.6022	130.7857	5.4712e-01	4.3035e+00
133	IHT000006	125.5183	128.8386	126.8973	5.4449e-01	4.2919e+00
134	IHT000007	130.0218	132.5608	131.4164	4.8650e-01	4.3055e+00
135	IHT000008	130.2396	132.9740	131.5678	5.2645e-01	4.3059e+00
136	IHT000009	130.8969	133.8266	132.4243	5.1553e-01	4.3086e+00
137	IHT000010	130.3072	132.8463	131.5767	6.2046e-01	4.3060e+00
138	IHT000011	134.5403	137.0793	135.7199	6.0869e-01	4.3188e+00
139	IHT000012	128.2452	130.7842	129.5615	6.2616e-01	4.2998e+00
140	IHT000013	91.6617	94.2007	93.0132	6.3484e-01	4.2042e+00
141	IHT000014	128.0086	130.5476	129.1414	6.2515e-01	4.2986e+00
142	IHT000015	95.7144	98.6441	96.9839	6.0005e-01	4.2131e+00
143	IHT000016	87.2521	89.7912	88.3303	5.7078e-01	4.1941e+00
144	IHT000017	106.2200	109.1497	107.4621	6.0459e-01	4.2385e+00
145	IHT000018	108.0341	110.5732	109.1865	5.5559e-01	4.2429e+00
146	IHT000019	103.7447	106.0885	105.0259	4.7868e-01	4.2324e+00
147	IHT000020	106.6106	108.7590	107.7941	4.7418e-01	4.2393e+00
148	IHT000021	-2.5804	-0.6273	-1.4905	5.3392e-01	4.1000e+00
149	IHT000022	90.7865	93.1303	91.9506	4.8802e-01	4.2018e+00
150	IHT000023	105.9871	108.3308	107.1668	4.7835e-01	4.2377e+00
151	IHT000024	71.1125	73.2609	72.2766	4.3218e-01	4.1632e+00
152	IHT000025	103.4781	106.0171	104.5718	4.4643e-01	4.2313e+00
153	IHT000026	105.2659	107.4144	106.3909	4.6280e-01	4.2358e+00
154	IHT000027	88.0709	90.4146	89.3599	5.4818e-01	4.1963e+00
155	IHT000028	90.3471	92.4955	91.3940	6.0587e-01	4.2006e+00

Test: May07_05

sum1

Date: Mon May 7 13:55:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8218	107.7749	106.7046	5.2384e-01	4.2366e+00
157	IHT000030	108.0341	110.1825	108.8740	5.5419e-01	4.2421e+00
158	IHT000031	106.9186	109.2623	107.7544	5.7323e-01	4.2392e+00
159	IHT000032	107.9890	110.5281	109.1219	5.7182e-01	4.2427e+00
160	IHT000033	107.9740	110.3178	109.0327	5.8937e-01	4.2425e+00
161	IHT000034	94.3472	96.3003	95.2691	5.8266e-01	4.2092e+00
162	IHT000035	124.5906	126.7390	125.4266	5.8266e-01	4.2876e+00
163	IHT000036	92.7960	94.9444	93.8272	5.4109e-01	4.2060e+00

Velocity 1 = 6.0613 (ft/sec) (+/- 4.8171 %)
Velocity 2 = 6.1383 (ft/sec) (+/- 2.3038 %)
Pressure drop = -3.7764 (psi)
Tsats in = 292.7570 (deg F) Tsats out = 296.6693 (deg F)
Phi inner = 101.9860 (kBtu/hr-ft2) (+/- 1.4092 %)
Phi outer = 101.2543 (kBtu/hr-ft2) (+/- 1.6182 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.7562	75.3940	75.2664	1.5484e-01	1.9000e+00
1	TRF000002	74.8440	75.2669	75.1485	1.2200e-01	1.9000e+00
2	TFM000001	86.5565	87.7097	87.2572	2.4170e-01	1.9002e+00
3	TIN000001	86.0869	86.9273	86.5660	1.9124e-01	1.9002e+00
4	TRV000001	86.7133	87.4460	87.1030	1.8892e-01	1.9002e+00
5	TSR000001	122.8699	124.3936	123.4679	3.7783e-01	1.9019e+00
6	TAO020136	156.6472	157.4442	156.9864	2.1006e-01	1.9051e+00
7	TAO050136	163.3462	164.4294	163.8508	2.4191e-01	1.9059e+00
8	TAO070136	161.7105	162.7033	162.2705	2.7041e-01	1.9057e+00
9	TAO080136	185.5240	186.2017	185.8655	1.5947e-01	1.9090e+00
10	TAO090136	190.1863	190.9621	190.6171	1.7749e-01	1.9098e+00
11	TAO100136	186.8576	188.0240	187.4877	2.3169e-01	1.9093e+00
12	TAO105136	190.9867	191.9584	191.4497	2.1092e-01	1.9099e+00
13	TAO110136	196.5923	197.5533	196.9282	1.9420e-01	1.9108e+00
14	TAO115136	195.1339	196.2011	195.7081	2.5001e-01	1.9106e+00
15	TAO120136	204.4830	205.2489	204.8362	1.5742e-01	1.9122e+00
16	TAO125136	199.8639	200.9228	200.3186	2.3422e-01	1.9114e+00
17	TAO130136	195.9462	196.7116	196.3306	1.7720e-01	1.9107e+00
18	TAO120048	205.4969	206.1697	205.8319	1.5669e-01	1.9124e+00
19	TAO130048	201.1622	201.8355	201.5202	1.5054e-01	1.9116e+00
20	TAO120224	204.2483	205.3058	204.8331	2.2128e-01	1.9122e+00
21	TAO130224	193.6846	194.7441	194.2094	2.3511e-01	1.9104e+00
22	TAO120312	205.6831	206.4520	206.1598	1.9611e-01	1.9124e+00
23	TAO130312	203.2829	204.0516	203.6599	1.7447e-01	1.9120e+00
24	TRT020000	153.3639	154.7634	154.1632	3.0166e-01	1.9048e+00
25	TRT070000	179.8581	180.7431	180.3380	2.0216e-01	1.9082e+00
26	TRT100000	200.4656	201.2353	200.8773	1.5681e-01	1.9115e+00
27	TRT120000	204.4261	205.0029	204.7107	1.6467e-01	1.9122e+00
28	TRT125000	213.8460	214.7972	214.4322	1.8456e-01	1.9140e+00
29	TRT130000	205.8557	206.5268	206.1745	1.4168e-01	1.9125e+00
30	EMPTY	39.1464	39.8352	39.5551	2.1400e-01	1.9011e+00
31	TAF050136	117.2754	118.7050	118.1053	2.9588e-01	1.9016e+00
32	TAF070136	130.2478	131.1560	130.6994	2.2739e-01	1.9025e+00
33	TAF080136	184.4955	185.4639	185.0222	2.0060e-01	1.9069e+00
34	TAF090136	141.1254	142.2300	141.7038	2.8730e-01	1.9035e+00
35	TAF100136	147.4973	148.6013	147.9032	2.7043e-01	1.9041e+00
36	TAF105136	149.8754	151.4633	150.6983	2.7056e-01	1.9044e+00
37	TAF110136	166.1964	167.3770	166.7435	2.3699e-01	1.9063e+00
38	TAF115136	156.8696	158.0615	157.3825	2.2644e-01	1.9051e+00
39	TAF120136	179.7151	181.0807	180.3788	2.6212e-01	1.9082e+00
40	TAF125136	163.4070	164.5887	164.0656	2.8142e-01	1.9060e+00
41	TAF130136	166.7677	167.8512	167.3666	2.8061e-01	1.9064e+00
42	TAF120048	163.6588	164.8535	164.2726	2.5463e-01	1.9060e+00
43	TAF130048	169.8503	170.6375	170.2834	2.0169e-01	1.9068e+00
44	TAF120224	163.1003	164.2869	163.6819	2.7584e-01	1.9059e+00
45	TAF130224	167.4938	168.5838	168.0688	3.0556e-01	1.9065e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0480	1.9316e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5506	9.9045e-02	1.9011e+00
48	TAI130138	199.6556	201.1984	200.5396	3.5282e-01	1.9114e+00
49	TAI130226	198.0435	199.1018	198.4450	2.4063e-01	1.9111e+00
50	TAI130314	200.9517	202.0147	201.4352	2.8491e-01	1.9116e+00
51	TAI130042	196.9681	198.3212	197.7453	2.5078e-01	1.9110e+00
52	TRR130090	149.8079	152.0966	151.0820	5.8006e-01	1.9044e+00
53	TSI000001	47.0646	47.9307	47.4807	1.8348e-01	1.9003e+00
54	TSI000002	122.5231	123.8446	123.1461	3.5191e-01	1.9019e+00
55	TSO000001	45.6727	46.4347	46.0814	1.8076e-01	1.9004e+00
56	TSO000002	57.2364	58.0957	57.6878	2.2335e-01	1.9001e+00
57	TAF020136	95.6819	97.2514	96.5314	3.5655e-01	1.9005e+00
58	TAF120312	163.9050	165.2856	164.6190	3.3479e-01	1.9060e+00
59	TAF130312	177.9729	179.4378	178.6803	4.0004e-01	1.9079e+00
60	EMPTY	2.6660	2.6855	2.6760	4.5163e-03	0.0000e+00
61	EMPTY	2.6709	2.6807	2.6757	3.0389e-03	0.0000e+00
62	EMPTY	2.6709	2.6807	2.6745	2.5743e-03	0.0000e+00
63	EMPTY	2.6758	2.6855	2.6797	2.4164e-03	0.0000e+00
64	EMPTY	1.2939	1.3037	1.2987	1.2041e-03	0.0000e+00
65	EMPTY	1.3135	1.3184	1.3140	1.4797e-03	0.0000e+00
66	EMPTY	1.3232	1.3281	1.3256	2.4642e-03	0.0000e+00
67	EMPTY	1.3379	1.3428	1.3383	1.3381e-03	0.7000e+00
68	EMPTY	1.3428	1.3525	1.3479	1.3811e-03	0.0000e+00
69	EMPTY	1.3574	1.3623	1.3620	1.1714e-03	0.0000e+00
70	EMPTY	1.3721	1.3721	1.3721	0.0000e+00	0.0000e+00
71	EMPTY	1.3867	1.3916	1.3914	9.6655e-04	0.0000e+00
72	EMPTY	1.3965	1.4063	1.4008	1.8821e-03	0.0000e+00
73	EMPTY	1.4111	1.4160	1.4138	2.4583e-03	0.0000e+00
74	EMPTY	1.4209	1.4258	1.4248	1.9730e-03	0.0000e+00
75	EMPTY	1.4355	1.4404	1.4364	1.8950e-03	0.0000e+00
76	EMPTY	1.4453	1.4502	1.4456	1.1714e-03	0.0000e+00
77	EMPTY	1.4600	1.4648	1.4606	1.7115e-03	0.0000e+00
78	EMPTY	1.4746	1.4795	1.4794	6.9053e-04	0.0000e+00
79	EMPTY	1.4990	1.4990	1.4990	0.0000e+00	0.0000e+00
80	PAN020136	-13.3543	-12.6676	-12.9942	1.6604e-01	8.7061e-01
81	PAN050136	-25.7003	-24.9374	-25.2853	2.0224e-01	1.6812e+00
82	PAN070136	-16.9090	-16.3750	-16.6313	1.0982e-01	8.7099e-01
83	PAN080136	-8.6900	-8.3085	-8.4718	9.5029e-02	8.7026e-01
84	PAN090136	-8.9893	-8.6078	-8.8688	7.0786e-02	8.7028e-01
85	PAN100136	-8.5404	-8.2353	-8.3863	7.4705e-02	8.7025e-01
86	PAN105136	-4.3010	-3.9959	-4.1210	6.4957e-02	8.7006e-01
87	PAN110136	-4.4067	-3.9489	-4.2129	8.3305e-02	8.7006e-01
88	PAN115136	-4.0105	-3.7816	-3.9007	7.2559e-02	8.7005e-01
89	PAN120136	-4.4066	-4.1777	-4.3029	5.2858e-02	8.7007e-01
90	PAN125136	-4.4155	-4.1866	-4.2964	7.2559e-02	8.7007e-01
91	PAN130136	-4.3142	-3.9327	-4.0960	7.7084e-02	8.7006e-01
92	PAN120048	-8.8176	-8.4362	-8.6788	7.3422e-02	8.7027e-01
93	PAN130048	-9.4207	-9.0392	-9.2116	8.4157e-02	8.7030e-01
94	PAN120224	-8.4802	-8.1750	-8.3261	8.0815e-02	8.7025e-01
95	PAN130224	-8.4832	-8.1780	-8.3535	7.5904e-02	8.7025e-01
96	PAN120312	-8.3086	-8.0034	-8.1423	7.5022e-02	8.7024e-01
97	PAN130312	-8.0664	-7.8375	-7.9871	6.8863e-02	8.7023e-01
98	PAB000136	59.9695	60.2442	60.1343	7.2231e-02	5.9917e-01
99	PAB100136	62.8217	63.0049	62.9160	4.0745e-02	6.0095e-01
100	PAB125136	63.6465	63.8296	63.7472	5.0655e-02	6.0150e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.2532	59.9773	1.3237e-01	7.6484e-01
102	PRV000001	19.5075	19.6296	19.5930	5.6508e-02	7.5160e-01
103	PSR000001	63.7488	63.8709	63.7830	5.5366e-02	7.6676e-01
104	PFM000001	5.3945	5.6692	5.5337	7.2207e-02	5.0019e-01
105	PAN000136	-107.4073	-101.4564	-104.5508	1.2007e+00	4.9269e+00
106	PFM000002	5.5615	5.7964	5.6773	5.4794e-02	2.0050e-01
107	EMPTY	-0.0049	0.0049	0.0008	3.8662e-03	0.0000e+00
108	EMPTY	-9.7559	-9.0723	-9.5030	1.8769e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0041	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	0.0000	9.8648e-04	0.0000e+00
112	VPW0000001	99.6244	101.5775	100.4876	4.2880e-01	1.0098e+00
113	VPW0000002	119.3322	120.5040	119.7970	2.5539e-01	1.0829e+00
114	VPW0000003	147.0928	148.6553	147.7725	3.6431e-01	1.2009e+00
115	VPW0000004	104.5974	106.7458	105.5309	4.7399e-01	1.0281e+00
116	VPW0000005	139.0287	141.9584	140.1616	5.8660e-01	1.1676e+00
117	VPW0000006	146.0412	147.9943	146.9083	4.1789e-01	1.1971e+00
118	IPW0000001	529.9111	543.5775	535.6899	2.8974e+00	9.1389e+00
119	IPW0000002	1313.6548	1331.2162	1320.7183	3.6747e+00	1.3209e+01
120	IPW0000003	1328.3999	1347.8999	1336.0439	4.0721e+00	1.3305e+01
121	IPW0000004	377.5259	387.7798	381.9303	2.1556e+00	3.6199e+00
122	IPW0000005	252.4538	259.2890	255.1097	1.3955e+00	2.8393e+00
123	IPW0000006	266.4514	270.8459	268.2481	9.0110e-01	2.9139e+00
124	EMPTY	-0.0293	-0.0098	-0.0225	4.1853e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3778e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	4.2038e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4173e-03	0.0000e+00
128	IHT0000001	131.4979	134.0370	133.0604	5.9189e-01	4.3105e+00
129	IHT0000002	132.0650	134.6041	133.4556	5.9009e-01	4.3117e+00
130	IHT0000003	130.8293	133.7590	132.6457	6.1289e-01	4.3092e+00
131	IHT0000004	131.9035	134.4426	133.2589	6.2938e-01	4.3111e+00
132	IHT0000005	129.0865	131.8209	130.6099	5.8527e-01	4.3030e+00
133	IHT0000006	125.5183	127.8621	126.7020	5.8582e-01	4.2913e+00
134	IHT0000007	130.2171	132.3655	131.2679	5.5788e-01	4.3050e+00
135	IHT0000008	130.4350	132.5834	131.4545	5.3567e-01	4.3056e+00
136	IHT0000009	131.0922	133.4360	132.3110	5.2134e-01	4.3082e+00
137	IHT0000010	129.9166	132.8463	131.4087	6.0587e-01	4.3054e+00
138	IHT0000011	133.9543	136.6887	135.5832	5.7129e-01	4.3184e+00
139	IHT0000012	127.6592	130.7842	129.3701	6.4181e-01	4.2993e+00
140	IHT0000013	91.2710	94.2007	92.9741	6.5202e-01	4.2041e+00
141	IHT0000014	127.0320	130.7429	128.9813	6.8059e-01	4.2981e+00
142	IHT0000015	95.3238	98.4488	96.8784	6.0997e-01	4.2129e+00
143	IHT0000016	87.0568	89.7912	88.2795	5.9688e-01	4.1940e+00
144	IHT0000017	105.2434	108.1731	106.5949	6.7755e-01	4.2363e+00
145	IHT0000018	108.0341	110.1825	109.0263	5.8239e-01	4.2425e+00
146	IHT0000019	103.1588	106.2838	104.7408	7.1817e-01	4.2317e+00
147	IHT0000020	105.8293	109.1497	107.5676	7.2999e-01	4.2388e+00
148	IHT0000021	-3.9476	0.3493	-1.5726	8.4017e-01	4.1000e+00
149	IHT0000022	90.5912	93.9115	91.8256	7.7969e-01	4.2016e+00
150	IHT0000023	105.4012	108.9168	106.9481	7.1881e-01	4.2372e+00
151	IHT0000024	70.5266	73.8469	72.0539	6.9216e-01	4.1628e+00
152	IHT0000025	103.0875	106.0171	104.3569	6.6993e-01	4.2307e+00
153	IHT0000026	104.8753	107.8050	106.1839	6.7225e-01	4.2353e+00
154	IHT0000027	88.0709	91.1959	89.3912	7.8479e-01	4.1963e+00
155	IHT0000028	89.9564	92.4955	90.9721	6.3992e-01	4.1997e+00

Test: May07_05

sum2

Date: Mon May 7 13:55:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0406	107.3843	106.1577	5.8930e-01	4.2352e+00
157	IHT000030	107.2528	109.4013	108.3310	5.7891e-01	4.2407e+00
158	IHT000031	106.3326	108.4811	107.2857	6.0828e-01	4.2380e+00
159	IHT000032	107.5984	109.7468	108.6336	6.0005e-01	4.2415e+00
160	IHT000033	107.3881	109.7318	108.5678	5.9183e-01	4.2413e+00
161	IHT000034	94.1519	96.6910	95.0386	5.8155e-01	4.2087e+00
162	IHT000035	124.2000	126.9343	125.1961	6.1795e-01	4.2869e+00
163	IHT000036	92.6006	94.9444	93.6201	5.6674e-01	4.2055e+00

Test: May07_05 dif Date: Mon May 7 13:55:50 1990 Page: 1

Velocity 1 = 0.027400 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.002000 (psi)

Tsat in = 0.124207 (deg F) Tsat out = 0.118500 (deg F)

Phi inner = 0.909302 (kBtu/hr-ft2) Phi outer = 0.621605 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1871	0.2492
1	TRF000002	0.1819	0.2426
2	TFM000001	0.4422	0.5094
3	TIN000001	0.4056	0.4708
4	TRV000001	0.5419	0.6260
5	TSR000001	4.6709	3.9318
6	TAO020136	0.3365	0.2148
7	TAO050136	0.2628	0.1606
8	TAO070136	1.3808	0.8582
9	TAO080136	0.1230	0.0662
10	TAO090136	0.1109	0.0582
11	TAO100136	0.2005	0.1071
12	TAO105136	0.1689	0.0883
13	TAO110136	0.1759	0.0894
14	TAO115136	0.0869	0.0444
15	TAO120136	0.1864	0.0911
16	TAO125136	0.1371	0.0685
17	TAO130136	0.2217	0.1130
18	TAO120048	0.0407	0.0198
19	TAO130048	0.1139	0.0566
20	TAO120224	0.0752	0.0367
21	TAO130224	0.0919	0.0473
22	TAO120312	0.0826	0.0401
23	TAO130312	0.0715	0.0351
24	TRT020000	0.1494	0.0970
25	TRT070000	0.0127	0.0070
26	TRT100000	0.0562	0.0280
27	TRT120000	0.0021	0.0010
28	TRT125000	0.0069	0.0032
29	TRT130000	0.0713	0.0346
30	EMPTY	0.0046	0.0116
31	TAF050136	0.4069	0.3457
32	TAF070136	0.3500	0.2685
33	TAF080136	0.0807	0.0436
34	TAF090136	0.8096	0.5746
35	TAF100136	0.2545	0.1724
36	TAF105136	0.1580	0.1050
37	TAF110136	0.2387	0.1434
38	TAF115136	0.1611	0.1025
39	TAF120136	0.1468	0.0815
40	TAF125136	0.1761	0.1075
41	TAF130136	0.2545	0.1523
42	TAF120048	0.1961	0.1195
43	TAF130048	0.1478	0.0869
44	TAF120224	0.1130	0.0691
45	TAF130224	0.1439	0.0857

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0046	0.0116
48	TAI130138	0.0021	0.0010
49	TAI130226	0.0989	0.0499
50	TAI130314	0.1136	0.0564
51	TAI130042	0.1759	0.0890
52	TRR130090	1.6922	1.1076
53	TSI000001	0.1109	0.2341
54	TSI000002	0.5986	0.4837
55	TSO000001	0.1279	0.2783
56	TSO000002	0.1485	0.2581
57	TAF020136	0.4241	0.4413
58	TAF120312	0.1563	0.0950
59	TAF130312	0.1352	0.0757
60	EMPTY	0.0008	0.0299
61	EMPTY	0.0011	0.0411
62	EMPTY	0.0013	0.0486
63	EMPTY	0.0007	0.0261
64	EMPTY	0.0006	0.0462
65	EMPTY	0.0012	0.0912
66	EMPTY	0.0005	0.0377
67	EMPTY	0.0012	0.0896
68	EMPTY	0.0001	0.0074
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0005	0.0364
71	EMPTY	0.0001	0.0072
72	EMPTY	0.0001	0.0071
73	EMPTY	0.0012	0.0848
74	EMPTY	0.0009	0.0631
75	EMPTY	0.0016	0.1113
76	EMPTY	0.0025	0.1726
77	EMPTY	0.0025	0.1709
78	EMPTY	0.0007	0.0473
79	EMPTY	0.0001	0.0067
80	PAN020136	0.0259	0.1989
81	PAN050136	0.0488	0.1926
82	PAN070136	0.0290	0.1747
83	PAN080136	0.0061	0.0721
84	PAN090136	0.0152	0.1711
85	PAN100136	0.0076	0.0905
86	PAN105136	0.0046	0.1115
87	PAN110136	0.0015	0.0356
88	PAN115136	0.0168	0.4326
89	PAN120136	0.0061	0.1420
90	PAN125136	0.0000	0.0000
91	PAN130136	0.0046	0.1124
92	PAN120048	0.0076	0.0876
93	PAN130048	0.0030	0.0326
94	PAN120224	0.0152	0.1829
95	PAN130224	0.0015	0.0179
96	PAN120312	0.0214	0.2635
97	PAN130312	0.0000	0.0000
98	PAB000136	0.1126	0.1869
99	PAB100136	0.1246	0.1976
100	PAB125136	0.1117	0.1749

Test: May07_05

dif

Date: Mon May 7 13:55:50 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0440	0.0733
102	PRV000001	0.0830	0.4254
103	PSR000001	0.0879	0.1376
104	PFM000001	0.0513	0.9185
105	PAN000136	0.0549	0.0525
106	PFM000002	0.0013	0.0229
107	EMPTY	0.0006	300.0000
108	EMPTY	0.0967	1.0280
109	EMPTY	0.0002	5.1282
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0039	0.0039
113	VPW000002	0.1328	0.1107
114	VPW000003	0.0664	0.0449
115	VPW000004	0.0117	0.0111
116	VPW000005	0.0196	0.0140
117	VPW000006	0.1133	0.0771
118	IPW000001	12.9637	2.3628
119	IPW000002	30.3229	2.3499
120	IPW000003	14.2739	1.0799
121	IPW000004	4.1016	1.0625
122	IPW000005	0.2246	0.0881
123	IPW000006	0.8203	0.3067
124	EMPTY	0.0027	13.6364
125	EMPTY	0.0003	2.1898
126	EMPTY	0.0011	6.7485
127	EMPTY	0.0005	3.1056
128	IHT000001	0.0312	0.0234
129	IHT000002	0.0274	0.0205
130	IHT000003	0.0273	0.0206
131	IHT000004	0.1055	0.0791
132	IHT000005	0.1758	0.1344
133	IHT000006	0.1953	0.1539
134	IHT000007	0.1485	0.1130
135	IHT000008	0.1133	0.0861
136	IHT000009	0.1133	0.0856
137	IHT000010	0.1680	0.1277
138	IHT000011	0.1367	0.1007
139	IHT000012	0.1914	0.1477
140	IHT000013	0.0391	0.0420
141	IHT000014	0.1601	0.1240
142	IHT000015	0.1055	0.1088
143	IHT000016	0.0508	0.0575
144	IHT000017	0.8672	0.8070
145	IHT000018	0.1602	0.1467
146	IHT000019	0.2851	0.2715
147	IHT000020	0.2265	0.2101
148	IHT000021	0.0821	5.5082
149	IHT000022	0.1250	0.1359
150	IHT000023	0.2187	0.2041
151	IHT000024	0.2227	0.3081
152	IHT000025	0.2149	0.2055
153	IHT000026	0.2070	0.1946
154	IHT000027	0.0313	0.0350
155	IHT000028	0.4219	0.4616

Test: May07_05 dif Date: Mon May 7 13:55:50 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.5469	0.5125
157	IHT000030	0.5430	0.4987
158	IHT000031	0.4687	0.4350
159	IHT000032	0.4883	0.4475
160	IHT000033	0.4649	0.4264
161	IHT000034	0.2305	0.2419
162	IHT000035	0.2305	0.1838
163	IHT000036	0.2071	0.2207

Test: May07_06

sum1

Date: Mon May 7 14:30:15 1990

Page: 1

Velocity 1 = 3.9526 (ft/sec) (+/- 10.9291 %)
 Velocity 2 = 4.0150 (ft/sec) (+/- 4.1199 %)
 Pressure drop = -4.6431 (psi)
 Tsat in = 293.0245 (deg F) Tsat out = 297.8924 (deg F)
 Phi inner = 100.9020 (kBtu/hr-ft2) (+/- 1.4124 %)
 Phi outer = 101.3506 (kBtu/hr-ft2) (+/- 1.6168 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.1814	75.8189	75.4577	1.6208e-01	1.9000e+00
1	TRF000002	75.2669	75.6896	75.4191	1.1331e-01	1.9000e+00
2	TFM000001	87.2906	88.2339	87.7705	2.4132e-01	1.9002e+00
3	TIN000001	86.8219	87.4526	87.0889	1.4271e-01	1.9002e+00
4	TRV000001	87.1320	88.0731	87.6865	2.1352e-01	1.9002e+00
5	TSR000001	127.9369	129.5555	128.6720	4.1694e-01	1.9023e+00
6	TAO020136	184.8517	186.2177	185.4665	2.7899e-01	1.9090e+00
7	TAO050136	197.1138	198.7486	197.8274	3.0984e-01	1.9110e+00
8	TAO070136	192.4697	193.5383	193.0079	2.7425e-01	1.9102e+00
9	TAO080136	228.4467	229.2951	229.0067	1.7284e-01	1.9170e+00
10	TAO090136	236.0676	236.9137	236.4943	2.1592e-01	1.9186e+00
11	TAO100136	234.7656	236.0839	235.3023	2.7314e-01	1.9183e+00
12	TAO105136	240.2090	241.4317	240.7643	2.6751e-01	1.9195e+00
13	TAO110136	247.2475	248.3613	247.6731	2.7056e-01	1.9211e+00
14	TAO115136	245.8062	246.8393	246.3452	2.4787e-01	1.9208e+00
15	TAO120136	257.1563	257.8027	257.4797	1.4719e-01	1.9235e+00
16	TAO125136	251.8756	253.5505	252.7190	3.6551e-01	1.9224e+00
17	TAO130136	248.7060	249.5355	249.0790	1.8327e-01	1.9215e+00
18	TAO120048	259.1598	260.1802	259.5623	2.3382e-01	1.9241e+00
19	TAO130048	256.2199	256.6847	256.4452	1.4782e-01	1.9233e+00
20	TAO120224	257.7238	258.7456	258.2383	2.3982e-01	1.9237e+00
21	TAO130224	245.9789	247.1881	246.5655	2.9104e-01	1.9209e+00
22	TAO120312	259.8261	260.6625	260.3224	2.0530e-01	1.9242e+00
23	TAO130312	257.6725	258.3224	258.0940	1.6036e-01	1.9237e+00
24	TRT020000	181.0002	182.3726	181.7351	3.1950e-01	1.9084e+00
25	TRT070000	220.1543	221.3023	220.8562	1.9478e-01	1.9153e+00
26	TRT100000	250.4226	251.0755	250.7417	1.5540e-01	1.9219e+00
27	TRT120000	258.8851	260.5548	259.4884	2.8074e-01	1.9240e+00
28	TRT125000	272.2297	273.0554	272.6173	1.5638e-01	1.9275e+00
29	TRT130000	260.6255	261.1818	260.8391	1.3280e-01	1.9244e+00
30	EMPTY	39.1464	40.0646	39.5873	1.9589e-01	1.9011e+00
31	TAF050136	134.2188	136.2333	135.2648	4.3510e-01	1.9029e+00
32	TAF070136	153.6524	155.5370	154.6429	4.2992e-01	1.9048e+00
33	TAF080136	226.1646	227.2928	226.7346	2.5829e-01	1.9165e+00
34	TAF090136	171.8035	173.5701	172.6065	4.0037e-01	1.9071e+00
35	TAF100136	181.2098	182.5807	181.7838	3.1410e-01	1.9084e+00
36	TAF105136	185.3040	186.9470	185.9399	3.4935e-01	1.9090e+00
37	TAF110136	208.2535	210.6398	209.2106	4.9724e-01	1.9130e+00
38	TAF115136	196.1255	197.5740	196.9350	2.9769e-01	1.9108e+00
39	TAF120136	228.1385	229.8367	229.0387	3.7985e-01	1.9170e+00
40	TAF125136	206.6869	208.6878	207.7636	4.2377e-01	1.9127e+00
41	TAF130136	210.9850	212.5130	211.5376	3.5226e-01	1.9134e+00
42	TAF120048	207.0394	208.5866	207.8346	4.0999e-01	1.9128e+00
43	TAF130048	216.0978	217.5260	216.7584	3.0690e-01	1.9145e+00
44	TAF120224	205.2903	207.1142	206.2139	4.2081e-01	1.9125e+00
45	TAF130224	211.7309	213.2684	212.4477	4.0500e-01	1.9136e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0526	2.1569e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7434	1.2268e-01	1.9011e+00
48	TAI130138	255.4281	257.1029	256.2975	4.0901e-01	1.9232e+00
49	TAI130226	253.2708	254.4778	253.9155	2.7329e-01	1.9227e+00
50	TAI130314	257.4247	258.5435	257.9415	2.6847e-01	1.9236e+00
51	TAI130042	253.8156	255.0273	254.3172	3.0873e-01	1.9228e+00
52	TRR130090	163.9790	165.4583	164.8373	3.6301e-01	1.9060e+00
53	TSI000001	47.3897	48.3635	47.8726	1.7383e-01	1.9003e+00
54	TSI000002	133.2543	135.0686	134.2651	4.3793e-01	1.9028e+00
55	TSO000001	45.6704	46.3242	46.0825	1.7218e-01	1.9004e+00
56	TSO000002	60.9874	62.0574	61.4566	2.2353e-01	1.9000e+00
57	TAF020136	102.1557	104.1332	103.1948	4.5413e-01	1.9007e+00
58	TAF120312	207.5056	209.2277	208.3071	4.1749e-01	1.9128e+00
59	TAF130312	226.6489	228.9158	228.1774	5.1242e-01	1.9168e+00
60	EMPTY	3.9063	3.9307	3.9199	5.4032e-03	0.0000e+00
61	EMPTY	3.9014	3.9160	3.9095	3.5030e-03	0.0000e+00
62	EMPTY	3.8965	3.9063	3.8996	2.9197e-03	0.0000e+00
63	EMPTY	3.8916	3.9014	3.8970	2.8334e-03	0.0000e+00
64	EMPTY	1.8311	1.8359	1.8330	2.4164e-03	0.0000e+00
65	EMPTY	1.8457	1.8457	1.8457	0.0000e+00	0.0000e+00
66	EMPTY	1.8506	1.8555	1.8537	2.3675e-03	0.0000e+00
67	EMPTY	1.8604	1.8652	1.8639	2.2146e-03	0.0000e+00
68	EMPTY	1.8652	1.8701	1.8699	9.6655e-04	0.0000e+00
69	EMPTY	1.8799	1.8848	1.8800	6.9053e-04	0.0000e+00
70	EMPTY	1.8848	1.8896	1.8890	1.7115e-03	0.0000e+00
71	EMPTY	1.8994	1.9043	1.9042	6.9053e-04	0.0000e+00
72	EMPTY	1.9092	1.9141	1.9093	6.9053e-04	0.0000e+00
73	EMPTY	1.9189	1.9238	1.9199	1.9730e-03	0.0000e+00
74	EMPTY	1.9287	1.9336	1.9288	6.9053e-04	0.0000e+00
75	EMPTY	1.9385	1.9385	1.9385	0.0000e+00	0.0000e+00
76	EMPTY	1.9434	1.9482	1.9444	2.0432e-03	0.0000e+00
77	EMPTY	1.9531	1.9580	1.9579	6.9053e-04	0.0000e+00
78	EMPTY	1.9727	1.9727	1.9727	0.0000e+00	0.0000e+00
79	EMPTY	1.9873	1.9922	1.9896	2.4642e-03	0.0000e+00
80	PAN020136	-16.2535	-15.7957	-16.1528	8.7791e-02	8.7094e-01
81	PAN050136	-31.1935	-30.7357	-30.9768	1.4489e-01	1.6818e+00
82	PAN070136	-20.4948	-20.2660	-20.3758	6.7469e-02	8.7149e-01
83	PAN080136	-10.5973	-10.2159	-10.3913	9.5328e-02	8.7039e-01
84	PAN090136	-11.0492	-10.5152	-10.6815	1.0644e-01	8.7041e-01
85	PAN100136	-10.8292	-10.1426	-10.5912	1.7952e-01	8.7040e-01
86	PAN105136	-5.5217	-5.0640	-5.2074	1.1600e-01	8.7010e-01
87	PAN110136	-5.6274	-0.8971	-5.0399	8.0066e-01	8.7009e-01
88	PAN115136	-7.4438	-5.3838	-5.8355	5.3746e-01	8.7012e-01
89	PAN120136	-6.0088	-5.3221	-5.6578	1.9375e-01	8.7011e-01
90	PAN125136	-6.0939	-4.8732	-5.7033	3.2061e-01	8.7012e-01
91	PAN130136	-3.3223	-1.5676	-2.4740	4.2928e-01	8.7002e-01
92	PAN120048	-12.0983	-7.7495	-11.4834	9.3204e-01	8.7047e-01
93	PAN130048	-12.0147	-8.3525	-9.1002	8.6646e-01	8.7030e-01
94	PAN120224	-11.9135	-10.6165	-11.2909	2.6445e-01	8.7046e-01
95	PAN130224	-8.1780	-7.0336	-7.6272	2.8013e-01	8.7021e-01
96	PAN120312	-11.7418	-10.7500	-11.2093	2.6044e-01	8.7045e-01
97	PAN130312	-8.4479	-7.3798	-7.9169	2.3170e-01	8.7023e-01
98	PAB000136	60.1526	60.5188	60.3769	8.8344e-02	5.9932e-01
99	PAB100136	63.6457	63.9204	63.8270	7.5110e-02	6.0155e-01
100	PAB125136	64.6994	65.0656	64.9063	8.9302e-02	6.0227e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.3753	60.1043	1.4014e-01	7.6490e-01
102	PRV000001	19.3854	19.5075	19.4050	4.5206e-02	7.5157e-01
103	PSR000001	64.8474	65.0916	64.9695	7.7988e-02	7.6739e-01
104	PFM000001	2.1902	2.4649	2.3147	7.5723e-02	5.0003e-01
105	PAN000136	-130.7532	-126.6334	-128.5468	7.9926e-01	4.9305e+00
106	PFM000002	2.3398	2.4405	2.3901	2.1970e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0016	3.4793e-03	0.0000e+00
108	EMPTY	-9.7021	-9.1992	-9.4796	1.4376e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0030	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	100.6009	100.9916	100.7611	1.2901e-01	1.0107e+00
113	VPW000002	119.9181	120.3087	120.1408	1.1844e-01	1.0843e+00
114	VPW000003	147.8741	148.2647	148.0654	1.3945e-01	1.2022e+00
115	VPW000004	105.5739	105.9645	105.8083	1.1838e-01	1.0291e+00
116	VPW000005	140.2006	140.5912	140.3725	1.2251e-01	1.1685e+00
117	VPW000006	147.0177	147.4083	147.1505	1.0763e-01	1.1982e+00
118	IPW000001	551.3869	555.2916	552.9879	1.2278e+00	9.2030e+00
119	IPW000002	1299.9958	1305.8497	1302.1029	1.5690e+00	1.3093e+01
120	IPW000003	1314.7500	1322.5499	1318.5715	2.0073e+00	1.3195e+01
121	IPW000004	382.4087	384.3618	383.3854	3.9459e-01	3.6295e+00
122	IPW000005	253.4302	254.4067	254.0648	3.1580e-01	2.8335e+00
123	IPW000006	264.9865	266.4514	265.6212	3.7239e-01	2.8988e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.4173e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.7124e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0152	3.0628e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	2.9986e-03	0.0000e+00
128	IHT000001	131.3026	134.0370	132.8339	5.2550e-01	4.3098e+00
129	IHT000002	131.8697	134.2135	133.2798	5.3276e-01	4.3112e+00
130	IHT000003	131.2199	133.5637	132.4074	5.3210e-01	4.3085e+00
131	IHT000004	132.0988	134.2473	133.0714	4.7102e-01	4.3105e+00
132	IHT000005	129.2819	131.6256	130.4537	4.5506e-01	4.3025e+00
133	IHT000006	125.5183	127.6668	126.6004	4.8522e-01	4.2910e+00
134	IHT000007	129.8264	132.1702	131.1156	4.7515e-01	4.3045e+00
135	IHT000008	130.0443	132.1928	131.2866	4.5122e-01	4.3051e+00
136	IHT000009	131.0922	133.4360	132.1626	4.5547e-01	4.3077e+00
137	IHT000010	130.1119	132.6510	131.2447	5.2645e-01	4.3049e+00
138	IHT000011	134.3450	136.6887	135.3527	5.0741e-01	4.3176e+00
139	IHT000012	128.2452	130.7842	129.1904	5.1654e-01	4.2987e+00
140	IHT000013	92.0523	94.3960	92.8569	5.2146e-01	4.2038e+00
141	IHT000014	128.0086	130.1570	128.7938	5.3012e-01	4.2975e+00
142	IHT000015	95.9097	98.2535	96.8277	4.7882e-01	4.2128e+00
143	IHT000016	87.4474	89.4005	88.2326	4.7595e-01	4.1939e+00
144	IHT000017	105.8293	108.3684	106.9348	6.2715e-01	4.2372e+00
145	IHT000018	107.8388	110.1825	109.0107	5.3233e-01	4.2424e+00
146	IHT000019	103.1588	106.0885	104.7525	5.7907e-01	4.2317e+00
147	IHT000020	106.2200	108.9543	107.6183	5.6958e-01	4.2389e+00
148	IHT000021	-3.3616	-0.2366	-1.4358	6.5318e-01	4.1000e+00
149	IHT000022	90.3959	92.7396	91.8842	5.0669e-01	4.2017e+00
150	IHT000023	105.4012	107.9402	106.9715	4.9750e-01	4.2373e+00
151	IHT000024	70.5266	73.0656	72.0930	4.9045e-01	4.1629e+00
152	IHT000025	102.6968	105.4312	104.4038	5.3788e-01	4.2308e+00
153	IHT000026	104.4847	107.2190	106.2034	5.5524e-01	4.2353e+00
154	IHT000027	87.8756	90.6100	89.3795	5.3851e-01	4.1963e+00
155	IHT000028	90.1518	92.1049	90.9448	4.4540e-01	4.1997e+00

Test: May07_06

sum1

Date: Mon May 7 14:30:15 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2359	107.1890	106.1187	4.8846e-01	4.2351e+00
157	IHT000030	107.2528	109.4013	108.2646	4.6804e-01	4.2405e+00
158	IHT000031	106.1373	108.4811	107.2662	5.3567e-01	4.2380e+00
159	IHT000032	107.5984	109.9421	108.6297	5.5248e-01	4.2415e+00
160	IHT000033	107.5834	109.9271	108.5600	5.6221e-01	4.2413e+00
161	IHT000034	94.3472	96.4957	94.9800	4.0733e-01	4.2086e+00
162	IHT000035	124.2000	126.3484	125.0204	4.6689e-01	4.2864e+00
163	IHT000036	92.9913	95.1397	93.5576	4.0864e-01	4.2054e+00

Test: May07_06

sum2

Date: Mon May 7 14:30:15 1990

Page: 1

Velocity 1 = 3.9616 (ft/sec) (+/- 10.8787 %)

Velocity 2 = 4.0088 (ft/sec) (+/- 4.1305 %)

Pressure drop = -4.6540 (psi)

Tsat in = 292.9952 (deg F) Tsat out = 297.7550 (deg F)

Phi inner = 101.1021 (kBtu/hr-ft2) (+/- 1.4118 %)

Phi outer = 101.2972 (kBtu/hr-ft2) (+/- 1.6172 %)

D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)

L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.1814	75.8189	75.4619	1.6315e-01	1.9000e+00
1	TRF000002	75.0555	75.4783	75.3557	1.1371e-01	1.9000e+00
2	TFM000001	86.6624	87.9189	87.3896	2.4887e-01	1.9002e+00
3	TIN000001	86.1916	87.2427	86.7486	2.5842e-01	1.9002e+00
4	TRV000001	87.1320	87.8645	87.5320	1.5765e-01	1.9002e+00
5	TSR000001	131.8755	133.7900	132.9340	4.9876e-01	1.9027e+00
6	TAO020136	184.7537	185.8280	185.3847	2.3268e-01	1.9089e+00
7	TAO050136	196.8251	198.2680	197.4813	3.1322e-01	1.9109e+00
8	TAO070136	194.0244	195.5775	194.8417	3.2226e-01	1.9105e+00
9	TAO080136	227.9760	228.9191	228.4123	1.7759e-01	1.9168e+00
10	TAO090136	235.7851	236.6324	236.2011	2.2969e-01	1.9185e+00
11	TAO100136	234.6715	236.0839	235.2194	3.0536e-01	1.9183e+00
12	TAO105136	239.6451	240.8676	240.2602	2.3680e-01	1.9194e+00
13	TAO110136	246.8755	247.8995	247.4469	2.3290e-01	1.9211e+00
14	TAO115136	245.3370	246.8388	245.9961	3.1763e-01	1.9208e+00
15	TAO120136	256.7858	257.4356	257.1477	1.8138e-01	1.9235e+00
16	TAO125136	253.2705	254.3857	253.8383	2.9584e-01	1.9226e+00
17	TAO130136	248.1570	248.9868	248.4862	1.7530e-01	1.9213e+00
18	TAO120048	259.1593	260.0871	259.4734	1.8453e-01	1.9240e+00
19	TAO130048	255.7567	256.4995	256.1412	1.6776e-01	1.9232e+00
20	TAO120224	257.3514	258.4671	257.8035	2.7337e-01	1.9236e+00
21	TAO130224	245.5158	247.2803	246.3760	3.6416e-01	1.9208e+00
22	TAO120312	259.3617	260.4767	260.0586	2.3164e-01	1.9242e+00
23	TAO130312	257.5797	258.3224	257.9013	1.8671e-01	1.9236e+00
24	TRT020000	180.8033	182.1766	181.5392	3.1454e-01	1.9084e+00
25	TRT070000	219.6760	221.2062	220.6803	2.6669e-01	1.9152e+00
26	TRT100000	250.2368	250.9824	250.5443	2.0647e-01	1.9218e+00
27	TRT120000	258.9780	260.2768	259.4884	2.8074e-01	1.9240e+00
28	TRT125000	271.9547	272.9649	272.3428	2.1868e-01	1.9274e+00
29	TRT130000	260.6254	261.1818	260.8946	1.2468e-01	1.9244e+00
30	EMPTY	39.1464	40.0646	39.6102	2.3870e-01	1.9011e+00
31	TAF050136	134.2180	136.4344	134.9666	4.5432e-01	1.9028e+00
32	TAF070136	153.5530	155.1398	154.4565	3.3775e-01	1.9048e+00
33	TAF080136	225.5040	227.1069	226.4523	3.6492e-01	1.9164e+00
34	TAF090136	171.6066	173.0802	172.3710	3.5226e-01	1.9070e+00
35	TAF100136	180.8184	182.3849	181.5842	3.7619e-01	1.9084e+00
36	TAF105136	184.8186	186.1746	185.6809	2.7789e-01	1.9090e+00
37	TAF110136	208.3484	209.7811	208.9395	3.9048e-01	1.9130e+00
38	TAF115136	195.6427	197.5740	196.6145	3.7342e-01	1.9108e+00
39	TAF120136	227.8546	229.9311	228.5934	4.4860e-01	1.9169e+00
40	TAF125136	205.7314	207.4485	206.5315	3.6025e-01	1.9125e+00
41	TAF130136	210.5074	212.5135	211.1136	3.5248e-01	1.9134e+00
42	TAF120048	206.2670	208.3940	207.6609	4.4104e-01	1.9127e+00
43	TAF130048	215.9069	217.3361	216.5832	3.8590e-01	1.9144e+00
44	TAF120224	204.8104	207.2097	205.9030	4.9024e-01	1.9124e+00
45	TAF130224	211.1536	213.0771	212.2749	4.5119e-01	1.9136e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0986	2.5511e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.7572	1.0983e-01	1.9011e+00
48	TAI130138	255.4286	257.1961	256.2046	3.4832e-01	1.9232e+00
49	TAI130226	253.1778	254.6632	253.7485	3.1933e-01	1.9226e+00
50	TAI130314	257.4257	258.6372	257.9565	2.9311e-01	1.9237e+00
51	TAI130042	253.6296	255.1202	254.3210	2.8935e-01	1.9228e+00
52	TRR130090	158.9429	163.0926	161.0679	1.0805e+00	1.9056e+00
53	TSI000001	47.6059	48.1475	47.9029	1.3628e-01	1.9003e+00
54	TSI000002	126.8882	129.3173	128.2108	5.6995e-01	1.9023e+00
55	TSO000001	45.5621	46.5421	46.0871	2.2833e-01	1.9004e+00
56	TSO000002	61.0944	61.9510	61.5550	2.3512e-01	1.9000e+00
57	TAF020136	101.8439	103.7177	102.9202	4.3991e-01	1.9007e+00
58	TAF120312	207.2185	208.9398	208.1082	3.7777e-01	1.9128e+00
59	TAF130312	226.8383	228.9158	227.9735	5.2749e-01	1.9167e+00
60	EMPTY	3.9014	3.9258	3.9154	4.8967e-03	0.0000e+00
61	EMPTY	3.9014	3.9111	3.9058	2.6562e-03	0.0000e+00
62	EMPTY	3.8916	3.9014	3.8963	2.1970e-03	0.0000e+00
63	EMPTY	3.8867	3.8965	3.8931	2.6562e-03	0.0000e+00
64	EMPTY	1.8311	1.8359	1.8312	6.9053e-04	0.0000e+00
65	EMPTY	1.8408	1.8457	1.8436	2.4484e-03	0.0000e+00
66	EMPTY	1.8506	1.8555	1.8511	1.4797e-03	0.0000e+00
67	EMPTY	1.8604	1.8652	1.8608	1.4797e-03	0.0000e+00
68	EMPTY	1.8652	1.8701	1.8677	2.4662e-03	0.0000e+00
69	EMPTY	1.8750	1.8799	1.8794	1.4797e-03	0.0000e+00
70	EMPTY	1.8848	1.8896	1.8859	2.1065e-03	0.0000e+00
71	EMPTY	1.8994	1.9043	1.9022	2.4344e-03	0.0000e+00
72	EMPTY	1.9043	1.9092	1.9091	6.9053e-04	0.0000e+00
73	EMPTY	1.9189	1.9189	1.9189	0.0000e+00	0.0000e+00
74	EMPTY	1.9238	1.9336	1.9284	1.5314e-03	0.0000e+00
75	EMPTY	1.9336	1.9385	1.9376	1.8950e-03	0.0000e+00
76	EMPTY	1.9385	1.9434	1.9433	6.9053e-04	0.0000e+00
77	EMPTY	1.9531	1.9580	1.9553	2.4484e-03	0.0000e+00
78	EMPTY	1.9678	1.9727	1.9712	2.2603e-03	0.0000e+00
79	EMPTY	1.9873	1.9922	1.9874	6.9053e-04	0.0000e+00
80	PAN020136	-16.5586	-15.9483	-16.2153	1.2734e-01	8.7094e-01
81	PAN050136	-31.3461	-30.7357	-31.0073	1.3184e-01	1.6818e+00
82	PAN070136	-20.5711	-20.2660	-20.4109	7.8972e-02	8.7150e-01
83	PAN080136	-10.5973	-10.2922	-10.3929	8.5041e-02	8.7039e-01
84	PAN090136	-10.7441	-10.5152	-10.6357	6.1828e-02	8.7041e-01
85	PAN100136	-10.7530	-10.4478	-10.5790	7.8655e-02	8.7040e-01
86	PAN105136	-5.3692	-5.1403	-5.2547	6.9362e-02	8.7010e-01
87	PAN110136	-5.5511	-5.1696	-5.3832	1.0107e-01	8.7010e-01
88	PAN115136	-5.9942	-4.0105	-5.4326	3.2942e-01	8.7011e-01
89	PAN120136	-6.7717	-5.0170	-5.7891	3.0269e-01	8.7012e-01
90	PAN125136	-3.6525	-2.7370	-3.1917	2.2281e-01	8.7004e-01
91	PAN130136	-5.2297	-4.8482	-5.0573	9.6024e-02	8.7009e-01
92	PAN120048	-12.0983	-7.9021	-11.6802	8.4498e-01	8.7049e-01
93	PAN130048	-12.0147	-7.8185	-8.8134	8.4845e-01	8.7028e-01
94	PAN120224	-12.3712	-10.7690	-11.5869	5.4300e-01	8.7048e-01
95	PAN130224	-8.1780	-1.6931	-7.3876	1.1584e+00	8.7020e-01
96	PAN120312	-11.9707	-10.9026	-11.3390	2.2603e-01	8.7046e-01
97	PAN130312	-8.1427	-7.1509	-7.7048	2.3619e-01	8.7021e-01
98	PAB000136	60.2442	60.4731	60.3504	6.0248e-02	5.9930e-01
99	PAB100136	63.6915	63.8746	63.7895	4.5316e-02	6.0152e-01
100	PAB125136	64.6994	64.8367	64.7754	4.0954e-02	6.0218e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.2532	60.1067	1.1029e-01	7.6491e-01
102	PRV000001	19.5075	19.6296	19.5124	2.4164e-02	7.5158e-01
103	PSR000001	64.8474	64.9695	64.9622	2.9284e-02	7.6738e-01
104	PFM000001	2.1902	2.4649	2.3257	5.9189e-02	5.0003e-01
105	PAN000136	-131.6688	-127.5489	-128.8489	9.4477e-01	4.9305e+00
106	PFM000002	2.3566	2.4237	2.3828	1.8306e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0011	3.9815e-03	0.0000e+00
108	EMPTY	-9.7168	-9.1650	-9.4286	1.4748e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	99.4291	101.9681	100.8548	5.0724e-01	1.0111e+00
113	VPW000002	119.3322	120.6994	120.2072	3.0371e-01	1.0846e+00
114	VPW000003	146.8975	149.0460	148.0967	4.5337e-01	1.2024e+00
115	VPW000004	104.5974	106.7458	105.7848	5.0662e-01	1.0291e+00
116	VPW000005	139.0287	141.7631	140.3803	6.3606e-01	1.1686e+00
117	VPW000006	146.0412	148.1896	147.3263	4.7366e-01	1.1990e+00
118	IPW000001	541.6252	557.2440	550.6841	3.5883e+00	9.1943e+00
119	IPW000002	1292.1908	1309.7522	1301.2837	4.3114e+00	1.3088e+01
120	IPW000003	1308.8999	1330.3500	1320.5609	5.5643e+00	1.3208e+01
121	IPW000004	376.0611	387.7798	383.7955	2.3456e+00	3.6322e+00
122	IPW000005	250.9891	257.3361	254.0942	1.4656e+00	2.8336e+00
123	IPW000006	263.5217	268.4045	266.1778	1.1383e+00	2.9020e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.3249e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.4662e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0142	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.5238e-03	0.0000e+00
128	IHT000001	131.4979	134.2323	132.8534	6.9967e-01	4.3099e+00
129	IHT000002	132.0650	134.6041	133.2915	6.8804e-01	4.3112e+00
130	IHT000003	131.0246	133.9543	132.4308	7.0255e-01	4.3086e+00
131	IHT000004	131.7082	134.4426	133.1066	6.7469e-01	4.3107e+00
132	IHT000005	129.2819	132.0162	130.5357	6.7784e-01	4.3028e+00
133	IHT000006	125.5183	128.2527	126.6317	6.2297e-01	4.2911e+00
134	IHT000007	130.0218	132.5608	131.1546	5.9189e-01	4.3047e+00
135	IHT000008	130.2396	132.7787	131.3295	5.9069e-01	4.3052e+00
136	IHT000009	131.2876	133.4360	132.2251	5.9320e-01	4.3079e+00
137	IHT000010	130.1119	132.6510	131.1939	6.0129e-01	4.3048e+00
138	IHT000011	134.3450	136.8840	135.4621	6.2270e-01	4.3180e+00
139	IHT000012	128.2452	130.7842	129.3428	6.0604e-01	4.2992e+00
140	IHT000013	91.6617	94.0054	92.8530	6.3901e-01	4.2038e+00
141	IHT000014	127.4226	130.1570	128.8094	7.1273e-01	4.2976e+00
142	IHT000015	95.5191	98.0582	96.8159	6.3228e-01	4.2128e+00
143	IHT000016	86.8615	89.4005	88.3224	5.5976e-01	4.1941e+00
144	IHT000017	106.4153	108.5637	107.3879	5.6976e-01	4.2383e+00
145	IHT000018	108.0341	110.3779	109.0732	6.0418e-01	4.2426e+00
146	IHT000019	103.7447	106.0885	104.8892	5.2201e-01	4.2320e+00
147	IHT000020	106.6106	108.9543	107.7590	5.0012e-01	4.2392e+00
148	IHT000021	-2.3851	-0.2366	-1.3265	5.6921e-01	4.1000e+00
149	IHT000022	90.7865	93.3256	92.0444	5.3403e-01	4.2020e+00
150	IHT000023	105.9871	108.3308	107.1160	5.8566e-01	4.2376e+00
151	IHT000024	70.9172	73.4563	72.2141	5.8362e-01	4.1631e+00
152	IHT000025	103.2828	105.4312	104.4937	5.4676e-01	4.2311e+00
153	IHT000026	105.0706	107.4144	106.2464	5.6702e-01	4.2354e+00
154	IHT000027	88.2662	91.1959	89.4107	6.1765e-01	4.1964e+00
155	IHT000028	89.5658	93.2768	91.2455	7.8125e-01	4.2003e+00

Test: May07_06

sum2

Date: Mon May 7 14:30:15 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0406	108.3609	106.3765	7.0405e-01	4.2358e+00
157	IHT000030	107.2528	110.9638	108.5341	6.7792e-01	4.2412e+00
158	IHT000031	106.1373	109.6529	107.4263	6.9363e-01	4.2384e+00
159	IHT000032	107.4031	110.7234	108.7898	6.7341e-01	4.2419e+00
160	IHT000033	107.3881	110.7084	108.7241	6.7006e-01	4.2417e+00
161	IHT000034	93.3707	97.2769	95.0464	7.5292e-01	4.2087e+00
162	IHT000035	123.4187	127.7156	125.1258	8.3595e-01	4.2867e+00
163	IHT000036	92.0147	95.1397	93.5811	7.2704e-01	4.2054e+00

Test: May07_06 dif Date: Mon May 7 14:30:15 1990 Page: 1

Velocity 1 = 0.009000 (ft/sec)

Velocity 2 = 0.006200 (ft/sec)

Pressure Drop = 0.010900 (psi)

Tsat in = 0.029297 (deg F) Tsat out = 0.137390 (deg F)

Phi inner = 0.200096 (kBtu/hr-ft2) Phi outer = 0.053398 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0042	0.0056
1	TRF000002	0.0634	0.0841
2	TFM000001	0.3809	0.4340
3	TIN000001	0.3403	0.3908
4	TRV000001	0.1545	0.1762
5	TSR000001	4.2620	3.3123
6	TAO020136	0.0818	0.0441
7	TAO050136	0.3461	0.1750
8	TAO070136	1.8338	0.9501
9	TAO080136	0.5944	0.2596
10	TAO090136	0.2932	0.1240
11	TAO100136	0.0829	0.0352
12	TAO105136	0.5041	0.2094
13	TAO110136	0.2262	0.0913
14	TAO115136	0.3491	0.1417
15	TAO120136	0.3320	0.1289
16	TAO125136	1.1193	0.4429
17	TAO130136	0.5928	0.2380
18	TAO120048	0.0889	0.0342
19	TAO130048	0.3040	0.1185
20	TAO120224	0.4348	0.1684
21	TAO130224	0.1895	0.0769
22	TAO120312	0.2638	0.1013
23	TAO130312	0.1927	0.0747
24	TRT020000	0.1959	0.1078
25	TRT070000	0.1759	0.0796
26	TRT100000	0.1974	0.0787
27	TRT120000	0.0000	0.0000
28	TRT125000	0.2745	0.1007
29	TRT130000	0.0555	0.0213
30	EMPTY	0.0229	0.0578
31	TAF050136	0.2982	0.2205
32	TAF070136	0.1864	0.1205
33	TAF080136	0.2823	0.1245
34	TAF090136	0.2355	0.1364
35	TAF100136	0.1996	0.1098
36	TAF105136	0.2590	0.1393
37	TAF110136	0.2711	0.1296
38	TAF115136	0.3205	0.1627
39	TAF120136	0.4453	0.1944
40	TAF125136	1.2321	0.5930
41	TAF130136	0.4240	0.2004
42	TAF120048	0.1737	0.0836
43	TAF130048	0.1752	0.0808
44	TAF120224	0.3109	0.1508
45	TAF130224	0.1728	0.0813

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1209
47	EMPTY	0.0138	0.0347
48	TAI130138	0.0929	0.0362
49	TAI130226	0.1670	0.0658
50	TAI130314	0.0150	0.0058
51	TAI130042	0.0038	0.0015
52	TRR130090	3.7694	2.2867
53	TSI000001	0.0303	0.0633
54	TSI000002	6.0543	4.5092
55	TSO000001	0.0046	0.0100
56	TSO000002	0.0984	0.1601
57	TAF020136	0.2746	0.2661
58	TAF120312	0.1989	0.0955
59	TAF130312	0.2039	0.0894
60	EMPTY	0.0045	0.1148
61	EMPTY	0.0037	0.0946
62	EMPTY	0.0033	0.0846
63	EMPTY	0.0039	0.1001
64	EMPTY	0.0018	0.0982
65	EMPTY	0.0021	0.1138
66	EMPTY	0.0026	0.1403
67	EMPTY	0.0031	0.1663
68	EMPTY	0.0022	0.1177
69	EMPTY	0.0006	0.0319
70	EMPTY	0.0031	0.1641
71	EMPTY	0.0020	0.1050
72	EMPTY	0.0002	0.0105
73	EMPTY	0.0010	0.0521
74	EMPTY	0.0004	0.0207
75	EMPTY	0.0009	0.0464
76	EMPTY	0.0011	0.0566
77	EMPTY	0.0026	0.1328
78	EMPTY	0.0015	0.0760
79	EMPTY	0.0022	0.1106
80	PAN020136	0.0625	0.3869
81	PAN050136	0.0305	0.0985
82	PAN070136	0.0351	0.1723
83	PAN080136	0.0016	0.0154
84	PAN090136	0.0458	0.4288
85	PAN100136	0.0122	0.1152
86	PAN105136	0.0473	0.9083
87	PAN110136	0.3433	6.8117
88	PAN115136	0.4029	6.9043
89	PAN120136	0.1313	2.3207
90	PAN125136	2.5116	44.0377
91	PAN130136	2.5833	104.4180
92	PAN120048	0.1968	1.7138
93	PAN130048	0.2868	3.1516
94	PAN120224	0.2960	2.6216
95	PAN130224	0.2396	3.1414
96	PAN120312	0.1297	1.1571
97	PAN130312	0.2121	2.6791
98	PAB000136	0.0265	0.0439
99	PAB100136	0.0375	0.0588
100	PAB125136	0.1309	0.2017

Test: May07_06

dif

Date: Mon May 7 14:30:15 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0024	0.0040
102	PRV000001	0.1074	0.5535
103	PSR000001	0.0073	0.0112
104	PFM000001	0.0110	0.4752
105	PAN000136	0.3021	0.2350
106	PFM000002	0.0073	0.3054
107	EMPTY	0.0005	31.2500
108	EMPTY	0.0510	0.5380
109	EMPTY	0.0009	30.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0937	0.0930
113	VPW000002	0.0664	0.0553
114	VPW000003	0.0313	0.0211
115	VPW000004	0.0235	0.0222
116	VPW000005	0.0078	0.0056
117	VPW000006	0.1758	0.1195
118	IPW000001	2.3038	0.4166
119	IPW000002	0.8192	0.0629
120	IPW000003	1.9894	0.1509
121	IPW000004	0.4101	0.1070
122	IPW000005	0.0294	0.0116
123	IPW000006	0.5566	0.2096
124	EMPTY	0.0007	3.5897
125	EMPTY	0.0003	2.2222
126	EMPTY	0.0010	6.5789
127	EMPTY	0.0008	4.6512
128	IHT000001	0.0195	0.0147
129	IHT000002	0.0117	0.0088
130	IHT000003	0.0234	0.0177
131	IHT000004	0.0352	0.0265
132	IHT000005	0.0820	0.0629
133	IHT000006	0.0313	0.0247
134	IHT000007	0.0390	0.0297
135	IHT000008	0.0429	0.0327
136	IHT000009	0.0625	0.0473
137	IHT000010	0.0508	0.0387
138	IHT000011	0.1094	0.0808
139	IHT000012	0.1524	0.1180
140	IHT000013	0.0039	0.0042
141	IHT000014	0.0156	0.0121
142	IHT000015	0.0118	0.0122
143	IHT000016	0.0898	0.1018
144	IHT000017	0.4531	0.4237
145	IHT000018	0.0625	0.0573
146	IHT000019	0.1367	0.1305
147	IHT000020	0.1407	0.1307
148	IHT000021	0.1093	7.6125
149	IHT000022	0.1602	0.1744
150	IHT000023	0.1445	0.1351
151	IHT000024	0.1211	0.1680
152	IHT000025	0.0899	0.0861
153	IHT000026	0.0430	0.0405
154	IHT000027	0.0312	0.0349
155	IHT000028	0.3007	0.3306

Test: May07_06

dif

Date: Mon May 7 14:30:15 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.2578	0.2429
157	IHT000030	0.2695	0.2489
158	IHT000031	0.1601	0.1493
159	IHT000032	0.1601	0.1474
160	IHT000033	0.1641	0.1512
161	IHT000034	0.0664	0.0699
162	IHT000035	0.1054	0.0843
163	IHT000036	0.0235	0.0251

Test: May07_07

sum1

Date: Mon May 7 14:46:54 1990

Page: 1

Velocity 1 = 2.9829 (ft/sec) (+/- 19.3258 %)
Velocity 2 = 3.0804 (ft/sec) (+/- 6.6990 %)
Pressure drop = -4.8934 (psi)
Tsat in = 293.0798 (deg F) Tsat out = 298.1215 (deg F)
Phi inner = 102.1255 (kBtu/hr-ft2) (+/- 1.4091 %)
Phi outer = 101.3623 (kBtu/hr-ft2) (+/- 1.6180 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.3940	75.8189	75.6659	1.5502e-01	1.9000e+00
1	TRF000002	75.2669	75.9009	75.5966	1.3609e-01	1.9000e+00
2	TFM000001	87.3958	88.3385	87.9071	2.0259e-01	1.9002e+00
3	TIN000001	86.8219	87.5572	87.2463	1.7359e-01	1.9002e+00
4	TRV000001	87.3420	88.5960	88.0068	2.4054e-01	1.9002e+00
5	TSR000001	137.5114	139.9185	138.9353	6.7381e-01	1.9032e+00
6	TAO020136	207.9047	209.1534	208.5426	3.0105e-01	1.9129e+00
7	TAO050136	224.2755	225.5973	224.7745	3.0107e-01	1.9161e+00
8	TAO070136	218.5841	220.9706	219.9283	4.8621e-01	1.9151e+00
9	TAO080136	262.0468	263.1534	262.6000	2.4162e-01	1.9248e+00
10	TAO090136	271.9490	273.1454	272.5418	2.8323e-01	1.9274e+00
11	TAO100136	272.9191	274.8507	273.9346	3.9592e-01	1.9278e+00
12	TAO105136	280.1793	282.0159	281.1528	3.3448e-01	1.9298e+00
13	TAO110136	290.0670	291.2441	290.7762	2.3793e-01	1.9326e+00
14	TAO115136	288.9200	290.7500	290.0437	3.8429e-01	1.9323e+00
15	TAO120136	301.8524	302.6642	302.2209	1.9175e-01	1.9360e+00
16	TAO125136	296.7814	298.8669	297.7976	3.9793e-01	1.9346e+00
17	TAO130136	290.6891	291.8608	291.2630	2.6867e-01	1.9327e+00
18	TAO120048	305.1206	306.0253	305.5658	2.2295e-01	1.9370e+00
19	TAO130048	299.5138	300.2389	299.8947	2.0782e-01	1.9353e+00
20	TAO120224	302.8579	304.3980	303.5430	3.3357e-01	1.9364e+00
21	TAO130224	288.1551	290.1492	288.9973	3.7083e-01	1.9320e+00
22	TAO120312	297.5179	298.7913	298.1039	3.0535e-01	1.9347e+00
23	TAO130312	300.7024	301.5178	301.1266	2.1298e-01	1.9357e+00
24	TRT020000	203.1916	204.5439	204.0525	2.8251e-01	1.9121e+00
25	TRT070000	252.5826	254.1762	253.4901	2.9851e-01	1.9225e+00
26	TRT100000	292.1965	293.6520	292.8409	3.4905e-01	1.9332e+00
27	TRT120000	304.7785	306.1355	305.4735	2.8165e-01	1.9370e+00
28	TRT125000	312.2295	313.0377	312.6465	2.1206e-01	1.9393e+00
29	TRT130000	303.0467	303.8612	303.4740	1.7056e-01	1.9364e+00
30	EMPTY	39.1464	40.0646	39.5919	2.4720e-01	1.9011e+00
31	TAF050136	149.0544	151.6435	150.3768	6.0865e-01	1.9043e+00
32	TAF070136	174.6131	177.7342	176.2725	6.3223e-01	1.9076e+00
33	TAF080136	257.1803	261.8801	260.5724	8.8603e-01	1.9243e+00
34	TAF090136	199.9945	202.2075	201.1191	5.0210e-01	1.9115e+00
35	TAF100136	212.4172	216.5345	213.5321	7.6039e-01	1.9138e+00
36	TAF105136	217.2286	221.5731	218.5949	8.8956e-01	1.9148e+00
37	TAF110136	246.5558	249.1636	247.8715	6.8824e-01	1.9212e+00
38	TAF115136	230.6790	233.2262	231.9097	5.7484e-01	1.9176e+00
39	TAF120136	279.6892	282.0671	280.7218	5.2169e-01	1.9297e+00
40	TAF125136	244.0039	247.5389	245.4179	5.9978e-01	1.9206e+00
41	TAF130136	249.6625	252.1775	250.7358	4.9517e-01	1.9219e+00
42	TAF120048	245.6182	247.8809	246.6479	5.1114e-01	1.9209e+00
43	TAF130048	258.2016	261.1683	259.3521	5.8880e-01	1.9240e+00
44	TAF120224	241.2607	244.1664	242.9371	6.3760e-01	1.9200e+00
45	TAF130224	250.9601	253.5854	252.0215	6.0291e-01	1.9222e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	1.5573e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9775	1.3021e-01	1.9011e+00
48	TAI130138	298.3520	299.8054	299.1370	3.3966e-01	1.9350e+00
49	TAI130226	296.3398	297.4270	296.8942	2.8092e-01	1.9344e+00
50	TAI130314	302.0836	303.2652	302.8181	2.4140e-01	1.9362e+00
51	TAI130042	299.8157	300.9965	300.3426	2.6838e-01	1.9354e+00
52	TRR130090	158.7444	160.6249	159.8018	4.2852e-01	1.9054e+00
53	TSI000001	47.9307	48.6883	48.3292	1.5685e-01	1.9003e+00
54	TSI000002	131.2373	132.5509	131.9167	3.1608e-01	1.9026e+00
55	TSO000001	45.7794	46.6503	46.2322	1.9211e-01	1.9004e+00
56	TSO000002	64.3002	65.3677	64.9920	2.4800e-01	1.9000e+00
57	TAF020136	107.7682	110.2548	109.1069	5.7947e-01	1.9010e+00
58	TAF120312	246.4238	248.6622	247.3939	5.9618e-01	1.9211e+00
59	TAF130312	269.2564	272.1090	270.5159	6.8703e-01	1.9269e+00
60	EMPTY	5.0000	5.0293	5.0166	7.1817e-03	0.0000e+00
61	EMPTY	4.9902	5.0098	4.9996	4.1666e-03	0.0000e+00
62	EMPTY	4.9756	4.9902	4.9839	3.7239e-03	0.0000e+00
63	EMPTY	4.9658	4.9805	4.9739	4.0204e-03	0.0000e+00
64	EMPTY	2.3047	2.3145	2.3080	2.6908e-03	0.0000e+00
65	EMPTY	2.3096	2.3242	2.3171	2.8266e-03	0.0000e+00
66	EMPTY	2.3193	2.3242	2.3221	2.4484e-03	0.0000e+00
67	EMPTY	2.3242	2.3340	2.3293	3.2658e-03	0.0000e+00
68	EMPTY	2.3291	2.3389	2.3318	2.6396e-03	0.0000e+00
69	EMPTY	2.3389	2.3438	2.3406	2.3675e-03	0.0000e+00
70	EMPTY	2.3389	2.3486	2.3454	2.5362e-03	0.0000e+00
71	EMPTY	2.3535	2.3633	2.3583	2.8744e-03	0.0000e+00
72	EMPTY	2.3584	2.3682	2.3606	2.6488e-03	0.0000e+00
73	EMPTY	2.3682	2.3730	2.3698	2.3365e-03	0.0000e+00
74	EMPTY	2.3730	2.3779	2.3745	2.2603e-03	0.0000e+00
75	EMPTY	2.3779	2.3877	2.3820	2.0598e-03	0.0000e+00
76	EMPTY	2.3828	2.3877	2.3852	2.4642e-03	0.0000e+00
77	EMPTY	2.3926	2.3975	2.3955	2.4164e-03	0.0000e+00
78	EMPTY	2.4072	2.4121	2.4080	1.8082e-03	0.0000e+00
79	EMPTY	2.4219	2.4268	2.4221	9.6655e-04	0.0000e+00
80	PAN020136	-19.7630	-16.7112	-18.0525	4.3408e-01	8.7117e-01
81	PAN050136	-32.4142	-31.6513	-31.9656	1.6431e-01	1.6819e+00
82	PAN070136	-23.1651	-17.6720	-22.1336	1.1703e+00	8.7176e-01
83	PAN080136	-13.9543	-9.6055	-13.0265	8.2523e-01	8.7061e-01
84	PAN090136	-12.1174	-10.9729	-11.6688	3.5972e-01	8.7049e-01
85	PAN100136	-10.3715	-7.9301	-9.0653	5.6856e-01	8.7030e-01
86	PAN105136	-5.7506	-3.7670	-4.8076	4.6593e-01	8.7008e-01
87	PAN110136	-5.4748	-3.8726	-4.5882	3.6667e-01	8.7008e-01
88	PAN115136	-5.2312	-3.7816	-4.7552	2.7250e-01	8.7008e-01
89	PAN120136	-5.6273	-4.7881	-5.1436	1.9655e-01	8.7010e-01
90	PAN125136	-5.4073	-4.2629	-5.0945	2.0922e-01	8.7009e-01
91	PAN130136	-5.5349	-4.6193	-5.2099	1.6942e-01	8.7010e-01
92	PAN120048	-10.8013	-9.0465	-10.4305	3.2552e-01	8.7039e-01
93	PAN130048	-11.3280	-10.7940	-11.0244	1.0843e-01	8.7044e-01
94	PAN120224	-10.0824	-9.0143	-9.6933	2.2403e-01	8.7034e-01
95	PAN130224	-10.3906	-9.8565	-10.2181	1.2504e-01	8.7037e-01
96	PAN120312	-10.0634	-8.0034	-9.4774	4.4311e-01	8.7032e-01
97	PAN130312	-10.2026	-9.6686	-10.0241	1.3491e-01	8.7036e-01
98	PAB000136	60.2442	60.6104	60.4273	8.0624e-02	5.9935e-01
99	PAB100136	64.0119	64.2866	64.1566	5.8754e-02	6.0177e-01
100	PAB125136	64.9740	65.2487	65.1251	6.2211e-02	6.0242e-01

Test: May07_07

sum1

Date: Mon May 7 14:46:54 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.0091	60.4974	60.2605	1.1932e-01	7.6498e-01
102	PRV000001	19.3854	19.5075	19.5026	2.4164e-02	7.5158e-01
103	PSR000001	65.2136	65.4578	65.3308	3.4527e-02	7.6758e-01
104	PFM000001	1.1831	1.3662	1.2985	6.8736e-02	5.0001e-01
105	PAN000136	-138.5352	-133.4998	-135.4773	1.0192e+00	4.9316e+00
106	PFM000002	1.3498	1.4337	1.3874	2.0498e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0033	3.0309e-03	0.0000e+00
108	EMPTY	-9.7021	-9.1699	-9.4317	1.3413e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0020	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0010	1.9730e-03	0.0000e+00
112	VPW000001	100.6009	100.9916	100.8158	1.1334e-01	1.0109e+00
113	VPW000002	120.1134	120.5040	120.2345	1.0358e-01	1.0847e+00
114	VPW000003	148.0694	148.6553	148.2959	1.1409e-01	1.2032e+00
115	VPW000004	105.7692	106.1599	105.9177	1.1545e-01	1.0295e+00
116	VPW000005	140.3959	140.9818	140.6772	1.3760e-01	1.1698e+00
117	VPW000006	147.2130	147.7990	147.4083	1.4227e-01	1.1993e+00
118	IPW000001	531.8635	537.7205	534.9871	1.4759e+00	9.1363e+00
119	IPW000002	1311.7035	1317.5573	1316.1134	1.5171e+00	1.3180e+01
120	IPW000003	1330.3500	1338.1499	1333.7434	2.6372e+00	1.3290e+01
121	IPW000004	380.4556	382.4087	381.5983	3.8975e-01	3.6177e+00
122	IPW000005	253.9184	255.3831	254.6409	3.9750e-01	2.8367e+00
123	IPW000006	265.9631	267.9162	267.1056	4.2556e-01	2.9073e+00
124	EMPTY	-0.0293	-0.0098	-0.0216	4.3101e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0152	2.8996e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	4.1853e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0164	2.5648e-03	0.0000e+00
128	IHT000001	131.3026	134.2323	132.5839	5.8946e-01	4.3090e+00
129	IHT000002	131.8697	134.2135	133.0298	5.5721e-01	4.3104e+00
130	IHT000003	131.2199	133.3684	132.1769	5.3851e-01	4.3078e+00
131	IHT000004	131.7082	133.8567	132.8253	5.1303e-01	4.3098e+00
132	IHT000005	129.0865	131.4303	130.2388	5.3123e-01	4.3019e+00
133	IHT000006	125.3230	128.0574	126.4481	5.7529e-01	4.2906e+00
134	IHT000007	129.8264	132.3655	130.9710	6.1385e-01	4.3041e+00
135	IHT000008	130.0443	132.5834	131.1186	5.9090e-01	4.3046e+00
136	IHT000009	130.8969	133.6313	131.9712	5.9353e-01	4.3072e+00
137	IHT000010	130.1119	132.4557	130.9048	5.3439e-01	4.3039e+00
138	IHT000011	133.9543	136.4934	135.1027	5.7675e-01	4.3169e+00
139	IHT000012	127.8545	130.1983	129.0108	5.7971e-01	4.2982e+00
140	IHT000013	91.6617	93.8101	92.6499	5.1055e-01	4.2034e+00
141	IHT000014	127.2273	129.9617	128.5946	5.5102e-01	4.2969e+00
142	IHT000015	95.3238	97.6675	96.6050	5.1017e-01	4.2123e+00
143	IHT000016	86.6662	89.2052	88.0138	5.3123e-01	4.1934e+00
144	IHT000017	105.0481	107.7825	106.2629	5.8831e-01	4.2355e+00
145	IHT000018	107.6435	109.9872	108.7998	5.2325e-01	4.2419e+00
146	IHT000019	103.7447	105.8932	104.5884	4.5582e-01	4.2313e+00
147	IHT000020	106.6106	108.7590	107.3918	5.0223e-01	4.2383e+00
148	IHT000021	-2.7757	-0.2366	-1.4671	5.8026e-01	4.1000e+00
149	IHT000022	90.5912	92.5443	91.6733	4.7549e-01	4.2012e+00
150	IHT000023	105.5965	107.7449	106.7606	4.7344e-01	4.2367e+00
151	IHT000024	70.9172	72.8703	71.8977	4.4902e-01	4.1626e+00
152	IHT000025	103.0875	105.2359	104.1851	4.7333e-01	4.2303e+00
153	IHT000026	104.6800	106.8284	105.8792	5.0534e-01	4.2345e+00
154	IHT000027	87.4850	90.0240	89.0513	5.0299e-01	4.1956e+00
155	IHT000028	89.9564	91.7143	90.8784	4.7522e-01	4.1995e+00

Test: May07_07

sum1

Date: Mon May 7 14:46:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0406	107.1890	106.0757	5.0417e-01	4.2350e+00
157	IHT000030	107.0575	109.4013	108.2060	4.7292e-01	4.2404e+00
158	IHT000031	106.1373	108.2858	107.1529	4.7186e-01	4.2377e+00
159	IHT000032	107.5984	109.3562	108.4461	4.4048e-01	4.2410e+00
160	IHT000033	107.5834	109.3412	108.4038	4.5163e-01	4.2409e+00
161	IHT000034	94.1519	95.5191	94.8003	3.4724e-01	4.2082e+00
162	IHT000035	124.0046	125.9578	124.9344	3.8774e-01	4.2861e+00
163	IHT000036	92.6006	94.5538	93.3389	3.6227e-01	4.2049e+00

Velocity 1 = 2.9870 (ft/sec) (+/- 19.2719 %)
Velocity 2 = 3.1034 (ft/sec) (+/- 6.6032 %)
Pressure drop = -4.8948 (psi)
Tsat in = 293.0144 (deg F) Tsat out = 298.0420 (deg F)
Phi inner = 101.7635 (kBtu/hr-ft2) (+/- 1.4100 %)
Phi outer = 101.0930 (kBtu/hr-ft2) (+/- 1.6190 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	75.3940	76.0314	75.6489	1.8712e-01	1.9000e+00
1	TRF0000002	75.2669	75.9009	75.6093	1.2730e-01	1.9000e+00
2	TFM0000001	87.3958	88.1293	87.7962	1.9705e-01	1.9002e+00
3	TIN0000001	86.8219	87.4520	87.1560	1.3534e-01	1.9002e+00
4	TRV0000001	87.5507	88.4914	88.1048	2.1866e-01	1.9002e+00
5	TSR0000001	140.2173	143.7193	142.6262	1.0733e+00	1.9036e+00
6	TAO020136	207.6159	208.9614	208.3139	3.1646e-01	1.9128e+00
7	TAO050136	223.8024	225.0319	224.4590	2.9048e-01	1.9160e+00
8	TAO070136	220.4931	222.0190	221.1018	3.4019e-01	1.9153e+00
9	TAO080136	261.5853	262.9692	262.3954	2.4337e-01	1.9248e+00
10	TAO090136	271.6736	272.8701	272.2715	2.8399e-01	1.9274e+00
11	TAO100136	271.8141	273.2870	272.5417	4.2616e-01	1.9274e+00
12	TAO105136	280.3629	281.9241	280.9820	3.1695e-01	1.9298e+00
13	TAO110136	289.8880	291.2423	290.4490	3.1035e-01	1.9325e+00
14	TAO115136	288.4616	290.6585	289.5621	4.6182e-01	1.9322e+00
15	TAO120136	301.4927	302.3951	301.9206	2.1544e-01	1.9359e+00
16	TAO125136	296.3296	298.2331	297.4621	4.3941e-01	1.9345e+00
17	TAO130136	290.7801	291.8608	291.1391	2.1053e-01	1.9327e+00
18	TAO120048	304.8493	305.9353	305.3651	2.1422e-01	1.9370e+00
19	TAO130048	299.4236	300.3294	299.8169	2.5001e-01	1.9353e+00
20	TAO120224	302.3145	303.4020	303.0446	2.2528e-01	1.9362e+00
21	TAO130224	287.4302	289.7872	288.6766	4.9731e-01	1.9319e+00
22	TAO120312	304.9640	306.0516	305.5096	2.4661e-01	1.9370e+00
23	TAO130312	300.7024	301.2469	301.0017	1.6499e-01	1.9356e+00
24	TRT020000	203.2869	204.6391	203.9309	3.2551e-01	1.9120e+00
25	TRT070000	252.5826	253.9886	253.4207	2.8810e-01	1.9225e+00
26	TRT100000	292.4693	293.4702	293.0136	2.1560e-01	1.9332e+00
27	TRT120000	304.5073	305.4126	304.9977	2.1879e-01	1.9368e+00
28	TRT125000	312.1410	312.7701	312.4656	1.5811e-01	1.9392e+00
29	TRT130000	303.1371	303.6810	303.4108	1.6712e-01	1.9364e+00
30	EMPTY	39.3761	40.0646	39.6883	2.0614e-01	1.9011e+00
31	TAF050136	148.9534	151.5434	150.3310	6.5721e-01	1.9043e+00
32	TAF070136	175.1005	177.0533	176.1302	4.3476e-01	1.9076e+00
33	TAF080136	258.8417	262.6155	260.7657	8.3863e-01	1.9244e+00
34	TAF090136	200.0917	202.3031	201.2479	5.3772e-01	1.9116e+00
35	TAF100136	212.0326	217.8729	213.5529	1.2136e+00	1.9138e+00
36	TAF105136	216.6610	220.8180	218.0639	8.0424e-01	1.9147e+00
37	TAF110136	246.5553	250.0011	247.8248	8.4173e-01	1.9212e+00
38	TAF115136	230.1126	233.0373	231.5607	6.2876e-01	1.9175e+00
39	TAF120136	279.5064	281.6103	280.4931	4.5651e-01	1.9296e+00
40	TAF125136	243.4451	246.9812	245.1256	6.5979e-01	1.9206e+00
41	TAF130136	249.2891	252.2705	250.3724	6.5045e-01	1.9218e+00
42	TAF120048	245.6175	247.5978	246.5819	5.0163e-01	1.9209e+00
43	TAF130048	258.2944	260.1501	259.2353	4.7888e-01	1.9240e+00
44	TAF120224	241.2607	243.6043	242.5003	6.3290e-01	1.9199e+00
45	TAF130224	250.0218	253.3980	251.5506	7.3268e-01	1.9221e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	2.2004e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9912	1.1764e-01	1.9011e+00
48	TAI130138	298.3527	299.9864	299.1823	3.4069e-01	1.9351e+00
49	TAI130226	295.9772	297.6079	296.7801	3.5823e-01	1.9343e+00
50	TAI130314	301.9921	303.2652	302.8491	2.8864e-01	1.9362e+00
51	TAI130042	299.8157	301.1780	300.4788	3.3597e-01	1.9355e+00
52	TRR130090	157.7544	160.1292	158.9332	4.2285e-01	1.9053e+00
53	TSI000001	47.9314	48.6889	48.3097	1.8200e-01	1.9003e+00
54	TSI000002	133.2552	134.3652	133.7782	2.5504e-01	1.9027e+00
55	TSO000001	45.7794	46.5413	46.1690	2.1215e-01	1.9004e+00
56	TSO000002	64.4068	65.3677	64.9429	2.2777e-01	1.9000e+00
57	TAF020136	107.8712	110.4613	108.7524	6.1276e-01	1.9010e+00
58	TAF120312	245.3030	248.8486	247.1532	6.3435e-01	1.9210e+00
59	TAF130312	269.0734	271.4656	270.3153	6.0152e-01	1.9268e+00
60	EMPTY	5.0000	5.0195	5.0109	6.0457e-03	0.0000e+00
61	EMPTY	4.9902	5.0000	4.9948	3.3322e-03	0.0000e+00
62	EMPTY	4.9756	4.9854	4.9792	2.7568e-03	0.0000e+00
63	EMPTY	4.9658	4.9756	4.9696	2.4741e-03	0.0000e+00
64	EMPTY	2.3047	2.3096	2.3051	1.3381e-03	0.0000e+00
65	EMPTY	2.3096	2.3193	2.3146	1.2041e-03	0.0000e+00
66	EMPTY	2.3193	2.3242	2.3195	9.6655e-04	0.0000e+00
67	EMPTY	2.3242	2.3291	2.3273	2.3675e-03	0.0000e+00
68	EMPTY	2.3291	2.3340	2.3298	1.7115e-03	0.0000e+00
69	EMPTY	2.3340	2.3389	2.3386	1.1714e-03	0.0000e+00
70	EMPTY	2.3438	2.3438	2.3438	0.0000e+00	0.0000e+00
71	EMPTY	2.3535	2.3584	2.3573	2.0432e-03	0.0000e+00
72	EMPTY	2.3584	2.3633	2.3597	2.1635e-03	0.0000e+00
73	EMPTY	2.3682	2.3730	2.3685	1.1714e-03	0.0000e+00
74	EMPTY	2.3682	2.3779	2.3735	1.7784e-03	0.0000e+00
75	EMPTY	2.3779	2.3828	2.3812	2.3365e-03	0.0000e+00
76	EMPTY	2.3828	2.3877	2.3848	2.4164e-03	0.0000e+00
77	EMPTY	2.3926	2.3975	2.3945	2.4164e-03	0.0000e+00
78	EMPTY	2.4072	2.4121	2.4075	1.1714e-03	0.0000e+00
79	EMPTY	2.4219	2.4268	2.4220	6.9053e-04	0.0000e+00
80	PAN020136	-19.6104	-16.2535	-17.3872	6.6583e-01	8.7109e-01
81	PAN050136	-32.5668	-32.1090	-32.4111	1.4291e-01	1.6820e+00
82	PAN070136	-23.1651	-22.6311	-22.9149	1.4046e-01	8.7188e-01
83	PAN080136	-13.3439	-12.1232	-12.5718	3.5439e-01	8.7057e-01
84	PAN090136	-12.0411	-9.9811	-11.4048	5.8888e-01	8.7047e-01
85	PAN100136	-10.9055	-7.9301	-9.4193	7.4740e-01	8.7032e-01
86	PAN105136	-5.5217	-3.6144	-4.6825	4.1930e-01	8.7008e-01
87	PAN110136	-5.3985	-3.8726	-4.6584	3.9123e-01	8.7008e-01
88	PAN115136	-5.3075	-4.5446	-4.9138	1.8196e-01	8.7009e-01
89	PAN120136	-5.3221	-4.5592	-4.9956	1.6958e-01	8.7009e-01
90	PAN125136	-5.4073	-4.6443	-5.0563	1.4784e-01	8.7009e-01
91	PAN130136	-5.4586	-4.7719	-5.1610	1.6547e-01	8.7010e-01
92	PAN120048	-10.8776	-10.0384	-10.4610	2.4430e-01	8.7039e-01
93	PAN130048	-11.1754	-10.7940	-10.9969	9.3262e-02	8.7043e-01
94	PAN120224	-10.3113	-9.1669	-9.6841	2.4772e-01	8.7034e-01
95	PAN130224	-10.3906	-9.9328	-10.1357	1.2674e-01	8.7037e-01
96	PAN120312	-9.9871	-9.2241	-9.6788	2.0963e-01	8.7034e-01
97	PAN130312	-10.3552	-9.6686	-10.0104	1.3281e-01	8.7036e-01
98	PAB000136	60.1984	60.4731	60.3678	5.9398e-02	5.9931e-01
99	PAB100136	64.0119	64.1950	64.0852	4.8055e-02	6.0172e-01
100	PAB125136	64.9740	65.1114	65.0491	4.6939e-02	6.0237e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.7649	60.4974	60.2215	1.3237e-01	7.6496e-01
102	PRV000001	19.5075	19.5075	19.5075	5.7801e-06	7.5158e-01
103	PSR000001	65.2136	65.3357	65.2478	5.5366e-02	7.6753e-01
104	PFM000001	1.1831	1.4578	1.3021	6.4738e-02	5.0001e-01
105	PAN000136	-142.6551	-133.4998	-135.5140	1.4086e+00	4.9317e+00
106	PFM000002	1.3666	1.4505	1.4089	2.6312e-02	2.0003e-01
107	EMPTY	-0.0049	0.0049	-0.0040	2.1364e-03	0.0000e+00
108	EMPTY	-9.6387	-9.0381	-9.3576	1.3641e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0016	2.3008e-03	0.0000e+00
112	VPW000001	100.6009	100.9916	100.8431	1.2823e-01	1.0110e+00
113	VPW000002	119.9181	120.3087	120.1681	1.1864e-01	1.0844e+00
114	VPW000003	147.8741	148.4600	148.1865	1.2478e-01	1.2028e+00
115	VPW000004	105.5739	105.9645	105.7848	1.1732e-01	1.0291e+00
116	VPW000005	140.2006	140.7865	140.5756	1.3578e-01	1.1694e+00
117	VPW000006	147.0177	147.6037	147.3771	1.3300e-01	1.1992e+00
118	IPW000001	533.8158	539.6729	537.0566	1.5584e+00	9.1439e+00
119	IPW000002	1301.9471	1311.7035	1306.8256	2.6809e+00	1.3122e+01
120	IPW000003	1326.4500	1330.3500	1328.9069	1.2953e+00	1.3260e+01
121	IPW000004	382.8970	385.3384	384.0983	5.1458e-01	3.6342e+00
122	IPW000005	253.9184	255.3831	254.8265	3.6920e-01	2.8377e+00
123	IPW000006	266.4514	268.4045	267.3106	4.3629e-01	2.9085e+00
124	EMPTY	-0.0293	-0.0146	-0.0229	3.6165e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0188	3.4681e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0171	3.9766e-03	0.0000e+00
128	IHT000001	131.3026	134.2323	132.3729	6.8259e-01	4.3084e+00
129	IHT000002	131.6744	134.7994	132.8697	6.7271e-01	4.3099e+00
130	IHT000003	130.8293	134.1496	132.0011	6.9475e-01	4.3073e+00
131	IHT000004	131.5129	134.8332	132.6847	7.2437e-01	4.3094e+00
132	IHT000005	129.0865	132.2115	130.1529	6.9274e-01	4.3016e+00
133	IHT000006	125.1277	128.2527	126.2801	6.8487e-01	4.2901e+00
134	IHT000007	129.6311	132.3655	130.7914	6.7012e-01	4.3036e+00
135	IHT000008	129.6537	132.5834	130.9038	6.5791e-01	4.3039e+00
136	IHT000009	130.7016	133.4360	131.7915	6.4849e-01	4.3066e+00
137	IHT000010	129.5260	132.2604	130.8540	5.6221e-01	4.3038e+00
138	IHT000011	133.7590	136.1028	134.9933	5.4310e-01	4.3165e+00
139	IHT000012	127.8545	130.3936	128.9326	5.6115e-01	4.2979e+00
140	IHT000013	91.6617	94.2007	92.5444	5.2086e-01	4.2031e+00
141	IHT000014	127.6179	129.9617	128.4891	5.4421e-01	4.2966e+00
142	IHT000015	95.7144	97.8628	96.4761	5.6669e-01	4.2120e+00
143	IHT000016	87.0568	89.2052	88.0256	5.5798e-01	4.1934e+00
144	IHT000017	104.8528	108.5637	106.3371	8.1919e-01	4.2357e+00
145	IHT000018	107.6435	110.3779	108.7685	6.2709e-01	4.2418e+00
146	IHT000019	103.5494	106.0885	104.5533	5.3816e-01	4.2312e+00
147	IHT000020	106.4153	108.7590	107.2746	5.0839e-01	4.2380e+00
148	IHT000021	-2.5804	-0.0413	-1.5921	5.9896e-01	4.1000e+00
149	IHT000022	90.7865	93.1303	91.6147	4.9687e-01	4.2011e+00
150	IHT000023	105.5965	108.1355	106.6473	5.1583e-01	4.2364e+00
151	IHT000024	70.9172	73.0656	71.7688	4.8610e-01	4.1623e+00
152	IHT000025	103.2828	105.4312	104.1108	4.8738e-01	4.2301e+00
153	IHT000026	104.8753	107.2190	105.8089	5.2391e-01	4.2343e+00
154	IHT000027	87.8756	90.0240	88.9966	5.4791e-01	4.1955e+00
155	IHT000028	89.9564	92.6908	91.0971	6.3425e-01	4.2000e+00

Test: May07_07

sum2

Date: Mon May 7 14:46:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0406	107.5796	106.1655	5.9131e-01	4.2352e+00
157	IHT000030	107.2528	109.9872	108.4091	6.2744e-01	4.2409e+00
158	IHT000031	106.1373	108.8717	107.2427	6.0052e-01	4.2379e+00
159	IHT000032	107.5984	110.5281	108.6023	5.9452e-01	4.2414e+00
160	IHT000033	107.3881	110.3178	108.5405	5.8958e-01	4.2412e+00
161	IHT000034	93.7613	96.4957	94.7652	5.1601e-01	4.2081e+00
162	IHT000035	123.8093	126.3484	124.8797	4.9637e-01	4.2860e+00
163	IHT000036	92.4053	94.9444	93.3740	4.7014e-01	4.2050e+00

Test: May07_07 dif Date: Mon May 7 14:46:54 1990 Page: 1

Velocity 1 = 0.004100 (ft/sec)

Velocity 2 = 0.023000 (ft/sec)

Pressure Drop = 0.001400 (psi)

Tsat in = 0.065399 (deg F) Tsat out = 0.079498 (deg F)

Phi inner = 0.362007 (kBtu/hr-ft2) Phi outer = 0.269295 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0170	0.0225
1	TRF000002	0.0127	0.0168
2	TFM000001	0.1109	0.1261
3	TIN000001	0.0903	0.1035
4	TRV000001	0.0980	0.1114
5	TSR000001	3.6909	2.6566
6	TAO020136	0.2287	0.1097
7	TAO050136	0.3155	0.1404
8	TAO070136	1.1735	0.5336
9	TAO080136	0.2046	0.0779
10	TAO090136	0.2703	0.0992
11	TAO100136	1.3929	0.5085
12	TAO105136	0.1708	0.0608
13	TAO110136	0.3272	0.1125
14	TAO115136	0.4816	0.1660
15	TAO120136	0.3003	0.0994
16	TAO125136	0.3355	0.1127
17	TAO130136	0.1239	0.0425
18	TAO120048	0.2007	0.0657
19	TAO130048	0.0778	0.0259
20	TAO120224	0.4984	0.1642
21	TAO130224	0.3207	0.1110
22	TAO120312	7.4057	2.4843
23	TAO130312	0.1249	0.0415
24	TRT020000	0.1216	0.0596
25	TRT070000	0.0694	0.0274
26	TRT100000	0.1727	0.0590
27	TRT120000	0.4758	0.1558
28	TRT125000	0.1809	0.0579
29	TRT130000	0.0632	0.0208
30	EMPTY	0.0964	0.2435
31	TAF050136	0.0458	0.0305
32	TAF070136	0.1423	0.0807
33	TAF080136	0.1933	0.0742
34	TAF090136	0.1288	0.0640
35	TAF100136	0.0208	0.0097
36	TAF105136	0.5310	0.2429
37	TAF110136	0.0467	0.0188
38	TAF115136	0.3490	0.1505
39	TAF120136	0.2287	0.0815
40	TAF125136	0.2923	0.1191
41	TAF130136	0.3634	0.1449
42	TAF120048	0.0660	0.0268
43	TAF130048	0.1168	0.0450
44	TAF120224	0.4368	0.1798
45	TAF130224	0.4709	0.1868

#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0966
47	EMPTY	0.0137	0.0343
48	TAI130138	0.0453	0.0151
49	TAI130226	0.1141	0.0384
50	TAI130314	0.0310	0.0102
51	TAI130042	0.1362	0.0453
52	TRR130090	0.8686	0.5436
53	TSI000001	0.0195	0.0403
54	TSI000002	1.8615	1.4111
55	TSO000001	0.0632	0.1367
56	TSO000002	0.0491	0.0755
57	TAF020136	0.3545	0.3249
58	TAF120312	0.2407	0.0973
59	TAF130312	0.2006	0.0742
60	EMPTY	0.0057	0.1136
61	EMPTY	0.0048	0.0960
62	EMPTY	0.0047	0.0943
63	EMPTY	0.0043	0.0864
64	EMPTY	0.0029	0.1257
65	EMPTY	0.0025	0.1079
66	EMPTY	0.0026	0.1120
67	EMPTY	0.0020	0.0859
68	EMPTY	0.0020	0.0858
69	EMPTY	0.0020	0.0855
70	EMPTY	0.0016	0.0682
71	EMPTY	0.0010	0.0424
72	EMPTY	0.0009	0.0381
73	EMPTY	0.0013	0.0549
74	EMPTY	0.0010	0.0421
75	EMPTY	0.0008	0.0336
76	EMPTY	0.0004	0.0168
77	EMPTY	0.0010	0.0417
78	EMPTY	0.0005	0.0208
79	EMPTY	0.0001	0.0041
80	PAN020136	0.6653	3.6854
81	PAN050136	0.4455	1.3937
82	PAN070136	0.7813	3.5299
83	PAN080136	0.4547	3.4906
84	PAN090136	0.2640	2.2624
85	PAN100136	0.3540	3.9050
86	PAN105136	0.1251	2.6021
87	PAN110136	0.0702	1.5300
88	PAN115136	0.1586	3.3353
89	PAN120136	0.1480	2.8774
90	PAN125136	0.0382	0.7498
91	PAN130136	0.0489	0.9386
92	PAN120048	0.0305	0.2924
93	PAN130048	0.0275	0.2494
94	PAN120224	0.0092	0.0949
95	PAN130224	0.0824	0.8064
96	PAN120312	0.2014	2.1251
97	PAN130312	0.0137	0.1367
98	PAB000136	0.0595	0.0985
99	PAB100136	0.0714	0.1113
100	PAB125136	0.0760	0.1167

Test: May07_07

dif

Date: Mon May 7 14:46:54 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0390	0.0647
102	PRV000001	0.0049	0.0251
103	PSR000001	0.0830	0.1270
104	PFM000001	0.0036	0.2772
105	PAN000136	0.0367	0.0271
106	PFM000002	0.0215	1.5497
107	EMPTY	0.0007	21.2121
108	EMPTY	0.0741	0.7856
109	EMPTY	0.0006	30.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0006	60.0000
112	VPW000001	0.0273	0.0271
113	VPW000002	0.0664	0.0552
114	VPW000003	0.1094	0.0738
115	VPW000004	0.1329	0.1255
116	VPW000005	0.1016	0.0722
117	VPW000006	0.0312	0.0212
118	IPW000001	2.0695	0.3868
119	IPW000002	9.2878	0.7057
120	IPW000003	4.8365	0.3626
121	IPW000004	2.5000	0.6551
122	IPW000005	0.1856	0.0729
123	IPW000006	0.2050	0.0768
124	EMPTY	0.0013	6.0185
125	EMPTY	0.0004	2.6316
126	EMPTY	0.0012	6.8182
127	EMPTY	0.0007	4.2683
128	IHT000001	0.2110	0.1591
129	IHT000002	0.1601	0.1203
130	IHT000003	0.1758	0.1330
131	IHT000004	0.1406	0.1059
132	IHT000005	0.0859	0.0660
133	IHT000006	0.1680	0.1329
134	IHT000007	0.1796	0.1371
135	IHT000008	0.2148	0.1638
136	IHT000009	0.1797	0.1362
137	IHT000010	0.0508	0.0388
138	IHT000011	0.1094	0.0810
139	IHT000012	0.0782	0.0606
140	IHT000013	0.1055	0.1139
141	IHT000014	0.1055	0.0820
142	IHT000015	0.1289	0.1334
143	IHT000016	0.0118	0.0134
144	IHT000017	0.0742	0.0698
145	IHT000018	0.0313	0.0288
146	IHT000019	0.0351	0.0336
147	IHT000020	0.1172	0.1091
148	IHT000021	0.1250	8.5202
149	IHT000022	0.0586	0.0639
150	IHT000023	0.1133	0.1061
151	IHT000024	0.1289	0.1793
152	IHT000025	0.0743	0.0713
153	IHT000026	0.0703	0.0664
154	IHT000027	0.0547	0.0614
155	IHT000028	0.2187	0.2406

Test: May07_07 dif Date: Mon May 7 14:46:54 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0898	0.0847
157	IHT000030	0.2031	0.1877
158	IHT000031	0.0898	0.0838
159	IHT000032	0.1562	0.1440
160	IHT000033	0.1367	0.1261
161	IHT000034	0.0351	0.0370
162	IHT000035	0.0547	0.0438
163	IHT000036	0.0351	0.0376

Velocity 1 = 2.9022 (ft/sec) (+/- 20.4423 %)
Velocity 2 = 2.9403 (ft/sec) (+/- 7.3329 %)
Pressure drop = -4.9189 (psi)
Tsats in = 293.2148 (deg F) Tsats out = 298.2229 (deg F)
Phi inner = 102.4051 (kBtu/hr-ft2) (+/- 1.4083 %)
Phi outer = 101.2259 (kBtu/hr-ft2) (+/- 1.6191 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.6065	76.2438	75.8699	1.6931e-01	1.9000e+00
1	TRF000002	75.4783	75.9009	75.7868	1.2232e-01	1.9000e+00
2	TFM000001	87.5010	88.3391	87.8679	1.9865e-01	1.9002e+00
3	TIN000001	87.0319	87.5577	87.2232	1.3028e-01	1.9002e+00
4	TRV000001	87.6571	88.4926	88.0934	1.7851e-01	1.9002e+00
5	TSR000001	141.0211	144.1205	142.9355	6.8036e-01	1.9036e+00
6	TAO020136	212.6060	213.9475	213.1907	3.3419e-01	1.9138e+00
7	TAO050136	230.1208	231.8162	231.0985	3.7395e-01	1.9174e+00
8	TAO070136	225.2560	227.4423	226.2394	5.4028e-01	1.9164e+00
9	TAO080136	269.5863	270.5045	270.0287	2.3298e-01	1.9268e+00
10	TAO090136	280.0256	280.8500	280.3901	2.1934e-01	1.9296e+00
11	TAO100136	279.8992	282.3722	281.0294	5.5204e-01	1.9298e+00
12	TAO105136	288.7039	290.2583	289.4265	4.0053e-01	1.9322e+00
13	TAO110136	297.5554	299.2657	298.4908	3.0701e-01	1.9349e+00
14	TAO115136	295.1369	297.0529	295.9525	4.0655e-01	1.9341e+00
15	TAO120136	302.7536	303.6554	303.2381	1.9332e-01	1.9363e+00
16	TAO125136	301.5827	302.9402	302.1712	3.1976e-01	1.9360e+00
17	TAO130136	297.2370	298.3140	297.7198	2.2698e-01	1.9346e+00
18	TAO120048	308.0121	308.7350	308.3828	1.5301e-01	1.9379e+00
19	TAO130048	303.0397	303.6722	303.3846	1.5248e-01	1.9363e+00
20	TAO120224	306.0266	306.9316	306.4485	2.1904e-01	1.9373e+00
21	TAO130224	294.4874	296.1134	295.4438	3.4043e-01	1.9339e+00
22	TAO120312	307.2285	308.2242	307.6828	2.5631e-01	1.9377e+00
23	TAO130312	304.2290	305.2223	304.8450	1.8594e-01	1.9368e+00
24	TRT020000	208.7837	210.4176	209.5543	4.1782e-01	1.9131e+00
25	TRT070000	257.7359	258.8579	258.3853	2.5528e-01	1.9238e+00
26	TRT100000	297.1013	297.9185	297.4810	1.9888e-01	1.9345e+00
27	TRT120000	306.5873	307.3108	306.9220	1.9518e-01	1.9374e+00
28	TRT125000	314.0210	314.6495	314.3283	1.7754e-01	1.9398e+00
29	TRT130000	306.4785	307.2013	306.7769	1.6141e-01	1.9374e+00
30	EMPTY	39.1464	40.0646	39.5781	2.0553e-01	1.9011e+00
31	TAF050136	153.0356	156.2116	155.1191	6.6223e-01	1.9049e+00
32	TAF070136	180.6555	184.4437	181.9760	8.9725e-01	1.9084e+00
33	TAF080136	260.4999	292.5253	268.3788	1.1191e+01	1.9263e+00
34	TAF090136	194.4011	197.6826	195.5158	7.8342e-01	1.9106e+00
35	TAF100136	219.2096	225.8785	221.2799	1.0699e+00	1.9154e+00
36	TAF105136	225.0600	231.2581	227.0630	1.6025e+00	1.9165e+00
37	TAF110136	257.2412	261.5882	259.0571	9.1859e-01	1.9239e+00
38	TAF115136	239.9028	243.6524	241.4352	7.5168e-01	1.9197e+00
39	TAF120136	284.9889	286.9054	286.1478	3.6394e-01	1.9312e+00
40	TAF125136	254.4946	257.6378	255.8796	6.5045e-01	1.9231e+00
41	TAF130136	259.3272	262.1058	260.0893	5.4012e-01	1.9242e+00
42	TAF120048	251.4561	253.6165	252.4799	5.3082e-01	1.9223e+00
43	TAF130048	265.0536	267.0863	265.9835	4.1239e-01	1.9257e+00
44	TAF120224	248.2825	251.5495	250.1369	6.5156e-01	1.9217e+00
45	TAF130224	259.1967	261.9022	260.2769	6.1430e-01	1.9242e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	2.2799e-01	1.9010e+00
47	EMPTY	39.6057	40.7527	39.9912	2.1463e-01	1.9011e+00
48	TAI130138	301.5289	302.6169	302.0711	2.5143e-01	1.9359e+00
49	TAI130226	300.2304	301.3149	300.7092	2.5315e-01	1.9355e+00
50	TAI130314	304.6279	305.6274	305.0804	2.6870e-01	1.9369e+00
51	TAI130042	302.1765	303.3549	302.7224	2.5161e-01	1.9361e+00
52	TRR130090	149.9086	151.9007	150.6521	4.3295e-01	1.9044e+00
53	TSI000001	48.1475	48.7975	48.4919	1.5712e-01	1.9003e+00
54	TSI000002	137.1818	138.7908	137.8481	3.1520e-01	1.9031e+00
55	TSO000001	45.7785	46.7583	46.2554	1.9033e-01	1.9004e+00
56	TSO000002	65.1545	66.1147	65.5831	2.0727e-01	1.9000e+00
57	TAF020136	108.4923	111.0817	110.1603	5.8796e-01	1.9011e+00
58	TAF120312	251.5484	254.5224	252.7481	6.6446e-01	1.9224e+00
59	TAF130312	277.4308	280.8188	279.3673	7.5535e-01	1.9293e+00
60	EMPTY	5.2295	5.2588	5.2447	7.8696e-03	0.0000e+00
61	EMPTY	5.2197	5.2344	5.2255	4.5943e-03	0.0000e+00
62	EMPTY	5.2002	5.2100	5.2062	3.5962e-03	0.0000e+00
63	EMPTY	5.1855	5.2002	5.1945	2.6762e-03	0.0000e+00
64	EMPTY	2.3975	2.4072	2.4038	2.4662e-03	0.0000e+00
65	EMPTY	2.4072	2.4170	2.4123	2.4083e-03	0.0000e+00
66	EMPTY	2.4121	2.4219	2.4165	2.4662e-03	0.0000e+00
67	EMPTY	2.4170	2.4268	2.4234	2.5034e-03	0.0000e+00
68	EMPTY	2.4219	2.4316	2.4255	2.5743e-03	0.0000e+00
69	EMPTY	2.4268	2.4365	2.4326	2.7902e-03	0.0000e+00
70	EMPTY	2.4316	2.4414	2.4373	2.2839e-03	0.0000e+00
71	EMPTY	2.4463	2.4561	2.4494	2.5648e-03	0.0000e+00
72	EMPTY	2.4512	2.4561	2.4526	2.2603e-03	0.0000e+00
73	EMPTY	2.4561	2.4658	2.4601	2.5515e-03	0.0000e+00
74	EMPTY	2.4609	2.4707	2.4642	2.7213e-03	0.0000e+00
75	EMPTY	2.4658	2.4756	2.4710	2.0716e-03	0.0000e+00
76	EMPTY	2.4707	2.4756	2.4739	2.3365e-03	0.0000e+00
77	EMPTY	2.4805	2.4854	2.4831	2.4583e-03	0.0000e+00
78	EMPTY	2.4902	2.5000	2.4951	9.8648e-04	0.0000e+00
79	EMPTY	2.5049	2.5195	2.5097	2.5131e-03	0.0000e+00
80	PAN020136	-17.8556	-17.0927	-17.4253	1.2404e-01	8.7109e-01
81	PAN050136	-33.0246	-32.5668	-32.8353	1.2545e-01	1.6820e+00
82	PAN070136	-25.3776	-19.3504	-23.0629	1.6471e+00	8.7191e-01
83	PAN080136	-13.9543	-10.4448	-12.8541	1.0668e+00	8.7059e-01
84	PAN090136	-11.9648	-9.0656	-10.6556	7.0185e-01	8.7041e-01
85	PAN100136	-10.6767	-8.6930	-9.6726	5.3602e-01	8.7034e-01
86	PAN105136	-5.9795	0.7344	-4.8229	9.5433e-01	8.7008e-01
87	PAN110136	-6.0851	-3.4911	-4.9239	5.9083e-01	8.7009e-01
88	PAN115136	-6.4519	-3.9342	-5.1580	5.4517e-01	8.7010e-01
89	PAN120136	-5.3221	-3.4148	-4.6447	4.4929e-01	8.7008e-01
90	PAN125136	-5.3310	-3.6525	-4.6504	3.1620e-01	8.7008e-01
91	PAN130136	-5.8400	-5.1534	-5.4403	1.5457e-01	8.7011e-01
92	PAN120048	-10.8013	-9.8858	-10.3100	2.1199e-01	8.7038e-01
93	PAN130048	-11.3280	-10.7177	-10.9832	1.3191e-01	8.7043e-01
94	PAN120224	-10.0061	-8.6328	-9.4781	2.5413e-01	8.7032e-01
95	PAN130224	-10.4669	-9.8565	-10.1937	1.2047e-01	8.7037e-01
96	PAN120312	-9.8345	-8.5375	-9.3660	3.2296e-01	8.7032e-01
97	PAN130312	-10.3552	-9.6686	-10.0638	1.4999e-01	8.7036e-01
98	PAB000136	60.4273	60.6562	60.5500	6.5682e-02	5.9943e-01
99	PAB100136	64.1493	64.3781	64.2463	5.8227e-02	6.0183e-01
100	PAB125136	65.1114	65.3402	65.2221	5.6323e-02	6.0248e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.1312	60.8636	60.4192	1.3898e-01	7.6506e-01
102	PRV000001	19.3854	19.6296	19.5075	2.4662e-02	7.5158e-01
103	PSR000001	65.2136	65.5798	65.4456	5.6508e-02	7.6764e-01
104	PFM000001	1.0916	1.3662	1.2271	6.4711e-02	5.0001e-01
105	PAN000136	-138.0775	-133.9576	-136.1823	9.2487e-01	4.9318e+00
106	PFM000002	1.2323	1.2995	1.2605	1.7099e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0035	2.7971e-03	0.0000e+00
108	EMPTY	-9.5557	-8.3887	-9.2492	1.6987e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0021	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0007	1.7115e-03	0.0000e+00
112	VPW000001	100.6009	101.1869	100.8744	1.1161e-01	1.0111e+00
113	VPW000002	120.1134	120.5040	120.2892	1.2633e-01	1.0849e+00
114	VPW000003	148.0694	148.4600	148.2256	1.2478e-01	1.2029e+00
115	VPW000004	105.5739	106.1599	105.8473	1.6269e-01	1.0293e+00
116	VPW000005	140.3959	140.9818	140.6381	1.2200e-01	1.1697e+00
117	VPW000006	147.0177	147.6037	147.3732	1.1632e-01	1.1992e+00
118	IPW000001	526.0065	531.8635	528.1931	1.2866e+00	9.1116e+00
119	IPW000002	1315.6061	1325.3624	1320.5231	2.6221e+00	1.3208e+01
120	IPW000003	1336.2000	1340.1000	1338.1887	1.1479e+00	1.3318e+01
121	IPW000004	378.0142	380.9439	379.4792	8.3122e-01	3.6038e+00
122	IPW000005	253.4302	254.8949	254.1039	2.9410e-01	2.8337e+00
123	IPW000006	266.9396	268.4045	267.7403	3.5238e-01	2.9110e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	4.0721e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0123	2.9986e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.3087e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	2.9280e-03	0.0000e+00
128	IHT000001	131.1073	133.6463	132.5253	5.5497e-01	4.3089e+00
129	IHT000002	131.6744	134.4088	132.9869	5.7594e-01	4.3103e+00
130	IHT000003	130.8293	133.1731	132.0207	5.1335e-01	4.3073e+00
131	IHT000004	131.5129	134.0520	132.7394	5.5248e-01	4.3095e+00
132	IHT000005	129.0865	131.4303	130.1685	5.2676e-01	4.3017e+00
133	IHT000006	125.1277	127.4714	126.2957	5.2865e-01	4.2901e+00
134	IHT000007	129.6311	131.7796	130.7757	5.2201e-01	4.3035e+00
135	IHT000008	129.6537	131.9975	130.8725	5.2875e-01	4.3038e+00
136	IHT000009	130.7016	132.8501	131.7602	5.2362e-01	4.3065e+00
137	IHT000010	129.7213	132.4557	130.7720	5.7167e-01	4.3035e+00
138	IHT000011	133.9543	136.1028	134.9503	5.4996e-01	4.3164e+00
139	IHT000012	127.6592	130.0030	128.8233	5.6076e-01	4.2976e+00
140	IHT000013	91.2710	93.6148	92.5210	5.3087e-01	4.2031e+00
141	IHT000014	127.2273	129.7664	128.5711	5.2146e-01	4.2969e+00
142	IHT000015	95.3238	97.6675	96.5464	4.8778e-01	4.2121e+00
143	IHT000016	87.0568	89.2052	88.0412	4.9436e-01	4.1935e+00
144	IHT000017	106.0247	109.3450	107.3801	7.2374e-01	4.2383e+00
145	IHT000018	107.8388	109.7919	108.8466	4.9025e-01	4.2420e+00
146	IHT000019	103.5494	105.5025	104.6470	4.6335e-01	4.2314e+00
147	IHT000020	106.4153	108.3684	107.5168	4.2271e-01	4.2386e+00
148	IHT000021	-2.7757	-0.4319	-1.5374	5.6028e-01	4.1000e+00
149	IHT000022	90.7865	92.7396	91.6381	4.6649e-01	4.2012e+00
150	IHT000023	105.5965	107.5496	106.6668	4.5204e-01	4.2365e+00
151	IHT000024	70.7219	72.6750	71.7844	4.2160e-01	4.1624e+00
152	IHT000025	103.2828	105.0406	104.2749	4.0403e-01	4.2305e+00
153	IHT000026	104.8753	107.0237	106.0394	4.6010e-01	4.2349e+00
154	IHT000027	88.0709	90.0240	89.1802	4.4370e-01	4.1959e+00
155	IHT000028	90.1518	92.4955	91.3471	5.7675e-01	4.2005e+00

Test: May07_08

sum1

Date: Mon May 7 15:10:51 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2359	107.7749	106.6069	5.7384e-01	4.2363e+00
157	IHT000030	107.8388	109.7919	108.9443	4.8586e-01	4.2423e+00
158	IHT000031	106.5279	108.6764	107.6216	5.0068e-01	4.2389e+00
159	IHT000032	107.9890	110.1375	109.0047	4.7842e-01	4.2424e+00
160	IHT000033	108.1693	109.9271	108.9585	4.7672e-01	4.2423e+00
161	IHT000034	94.1519	96.1050	95.1909	4.3484e-01	4.2091e+00
162	IHT000035	124.3953	126.3484	125.2782	4.3627e-01	4.2871e+00
163	IHT000036	92.7960	94.5538	93.6748	4.0095e-01	4.2057e+00

Velocity 1 = 2.8938 (ft/sec) (+/- 20.5643 %)
Velocity 2 = 2.9304 (ft/sec) (+/- 7.3814 %)
Pressure drop = -4.9166 (psi)
Tsats in = 293.2148 (deg F) Tsats out = 298.2679 (deg F)
Phi inner = 102.4997 (kBtu/hr-ft2) (+/- 1.4081 %)
Phi outer = 101.2112 (kBtu/hr-ft2) (+/- 1.6191 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.3940	76.2438	75.8826	1.9315e-01	1.9000e+00
1	TRF000002	75.6896	76.1122	75.8798	1.2261e-01	1.9000e+00
2	TFM000001	87.1877	88.1305	87.7361	2.2247e-01	1.9002e+00
3	TIN000001	86.7164	87.5571	87.1495	2.0094e-01	1.9002e+00
4	TRV000001	87.3432	88.2835	87.8036	1.9009e-01	1.9002e+00
5	TSR000001	139.9169	142.5234	141.3170	6.8066e-01	1.9034e+00
6	TAO020136	212.5106	214.3298	213.2345	3.7217e-01	1.9138e+00
7	TAO050136	230.1213	231.6287	230.9538	3.7172e-01	1.9174e+00
8	TAO070136	226.0168	228.4868	226.8835	5.6694e-01	1.9165e+00
9	TAO080136	269.4955	270.6879	270.2765	2.5054e-01	1.9268e+00
10	TAO090136	280.2993	281.7650	281.0107	3.0430e-01	1.9298e+00
11	TAO100136	279.8067	283.0123	281.4892	6.9742e-01	1.9299e+00
12	TAO105136	289.3438	291.1717	290.4335	4.3131e-01	1.9325e+00
13	TAO110136	298.2768	299.8072	299.1767	3.4017e-01	1.9351e+00
14	TAO115136	295.4102	297.0529	296.1549	4.4777e-01	1.9341e+00
15	TAO120136	303.3827	304.3734	303.7613	2.2941e-01	1.9365e+00
16	TAO125136	301.4922	303.5724	302.2599	3.9290e-01	1.9360e+00
17	TAO130136	297.5042	298.4928	298.0228	2.3488e-01	1.9347e+00
18	TAO120048	308.1931	308.9156	308.6157	1.6772e-01	1.9380e+00
19	TAO130048	303.4909	304.2136	303.7692	1.3777e-01	1.9365e+00
20	TAO120224	306.2075	307.4741	306.8338	2.4978e-01	1.9374e+00
21	TAO130224	294.9392	296.9261	295.9115	4.3335e-01	1.9341e+00
22	TAO120312	307.4095	308.4953	307.9487	2.4796e-01	1.9378e+00
23	TAO130312	304.8605	305.8546	305.2621	1.8817e-01	1.9369e+00
24	TRT020000	208.4937	210.0330	209.3406	3.8570e-01	1.9130e+00
25	TRT070000	258.1102	259.4202	258.8583	2.7104e-01	1.9239e+00
26	TRT100000	297.7366	298.4624	298.1031	1.7683e-01	1.9347e+00
27	TRT120000	306.8583	307.4917	307.1731	1.9354e-01	1.9375e+00
28	TRT125000	314.1096	314.9183	314.5415	1.7011e-01	1.9399e+00
29	TRT130000	306.7492	307.4719	307.0855	1.6429e-01	1.9375e+00
30	EMPTY	39.1464	40.0646	39.5735	1.8557e-01	1.9011e+00
31	TAF050136	154.0298	156.6087	155.2363	5.7022e-01	1.9049e+00
32	TAF070136	180.1700	184.1535	182.0248	8.6266e-01	1.9084e+00
33	TAF080136	260.0385	292.7971	267.9790	1.0355e+01	1.9262e+00
34	TAF090136	195.4642	198.3583	196.8690	6.9548e-01	1.9108e+00
35	TAF100136	219.6869	225.9736	222.4666	1.8379e+00	1.9156e+00
36	TAF105136	225.4363	229.7595	227.0770	9.3491e-01	1.9165e+00
37	TAF110136	257.7968	261.3120	259.5105	8.7612e-01	1.9240e+00
38	TAF115136	240.7465	243.3714	241.7970	7.0742e-01	1.9198e+00
39	TAF120136	285.6284	287.7248	286.2737	4.0346e-01	1.9313e+00
40	TAF125136	254.9576	258.0987	256.1775	7.1489e-01	1.9232e+00
41	TAF130136	259.3282	262.3833	260.5134	6.2998e-01	1.9243e+00
42	TAF120048	251.8308	253.8985	252.7819	5.5574e-01	1.9224e+00
43	TAF130048	265.7928	267.4554	266.6465	4.4909e-01	1.9259e+00
44	TAF120224	249.5897	252.3881	250.7695	5.8543e-01	1.9219e+00
45	TAF130224	259.4761	262.1802	260.8905	6.3126e-01	1.9244e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	1.9398e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.0325	1.9671e-01	1.9011e+00
48	TAI130138	301.5291	302.7073	302.2723	2.4642e-01	1.9360e+00
49	TAI130226	300.5022	301.4959	301.0653	2.3975e-01	1.9356e+00
50	TAI130314	304.9004	305.8988	305.3254	2.4635e-01	1.9369e+00
51	TAI130042	302.3575	303.6272	302.9345	2.7896e-01	1.9362e+00
52	TRR130090	149.3107	152.2984	150.5107	7.2089e-01	1.9044e+00
53	TSI0000001	47.7147	48.7977	48.3256	2.1058e-01	1.9003e+00
54	TSI0000002	136.3792	138.0886	137.2312	4.1442e-01	1.9030e+00
55	TSO0000001	45.8868	46.7583	46.2573	2.2109e-01	1.9004e+00
56	TSO0000002	65.2616	66.1142	65.6577	2.1669e-01	1.9000e+00
57	TAF020136	108.0776	112.0116	110.0957	7.1773e-01	1.9011e+00
58	TAF120312	252.4779	254.8010	253.4117	5.7607e-01	1.9225e+00
59	TAF130312	279.1708	281.5498	280.3575	5.6719e-01	1.9296e+00
60	EMPTY	5.2539	5.2783	5.2694	5.7258e-03	0.0000e+00
61	EMPTY	5.2441	5.2588	5.2500	3.2718e-03	0.0000e+00
62	EMPTY	5.2295	5.2393	5.2316	2.8179e-03	0.0000e+00
63	EMPTY	5.2197	5.2246	5.2214	2.3365e-03	0.0000e+00
64	EMPTY	2.4121	2.4170	2.4162	1.8082e-03	0.0000e+00
65	EMPTY	2.4170	2.4268	2.4230	2.3261e-03	0.0000e+00
66	EMPTY	2.4268	2.4316	2.4278	2.0432e-03	0.0000e+00
67	EMPTY	2.4316	2.4365	2.4357	1.8082e-03	0.0000e+00
68	EMPTY	2.4365	2.4414	2.4370	1.4797e-03	0.0000e+00
69	EMPTY	2.4414	2.4512	2.4453	2.2058e-03	0.0000e+00
70	EMPTY	2.4463	2.4512	2.4500	2.1065e-03	0.0000e+00
71	EMPTY	2.4561	2.4658	2.4614	1.7784e-03	0.0000e+00
72	EMPTY	2.4609	2.4658	2.4654	1.3381e-03	0.0000e+00
73	EMPTY	2.4707	2.4756	2.4730	2.4642e-03	0.0000e+00
74	EMPTY	2.4756	2.4805	2.4763	1.7115e-03	0.0000e+00
75	EMPTY	2.4805	2.4854	2.4847	1.7115e-03	0.0000e+00
76	EMPTY	2.4854	2.4902	2.4866	2.1635e-03	0.0000e+00
77	EMPTY	2.4951	2.5000	2.4952	6.9053e-04	0.0000e+00
78	EMPTY	2.5049	2.5098	2.5075	2.4583e-03	0.0000e+00
79	EMPTY	2.5195	2.5244	2.5222	2.4583e-03	0.0000e+00
80	PAN020136	-17.7030	-17.2453	-17.4635	9.5029e-02	8.7109e-01
81	PAN050136	-33.7875	-33.0246	-33.2962	1.3184e-01	1.6821e+00
82	PAN070136	-24.8436	-17.9008	-22.6295	1.8629e+00	8.7184e-01
83	PAN080136	-13.8780	-8.6137	-11.9920	1.2899e+00	8.7052e-01
84	PAN090136	-12.0411	0.0897	-9.8484	2.0796e+00	8.7035e-01
85	PAN100136	-12.4314	-2.8947	-10.5409	1.5914e+00	8.7040e-01
86	PAN105136	-7.5817	-3.5381	-4.9938	8.8234e-01	8.7009e-01
87	PAN110136	-5.7037	-3.4911	-4.8827	5.3585e-01	8.7009e-01
88	PAN115136	-6.7571	-4.4683	-5.3609	5.2819e-01	8.7010e-01
89	PAN120136	-5.1696	-2.8807	-4.3715	4.9160e-01	8.7007e-01
90	PAN125136	-5.1784	-4.1866	-4.7939	2.0154e-01	8.7008e-01
91	PAN130136	-5.6875	-5.0771	-5.4296	1.4285e-01	8.7011e-01
92	PAN120048	-10.7250	-9.3517	-10.2230	2.6790e-01	8.7038e-01
93	PAN130048	-11.2517	-10.7940	-10.9893	1.0697e-01	8.7043e-01
94	PAN120224	-9.8535	-8.4802	-9.3118	3.2815e-01	8.7031e-01
95	PAN130224	-10.3906	-9.9328	-10.1678	1.0089e-01	8.7037e-01
96	PAN120312	-9.9108	-8.6901	-9.4850	2.6433e-01	8.7032e-01
97	PAN130312	-10.2789	-9.5160	-10.0043	1.4784e-01	8.7036e-01
98	PAB000136	60.4273	60.6562	60.5500	5.5827e-02	5.9943e-01
99	PAB100136	63.9204	64.3781	64.2600	8.8266e-02	6.0184e-01
100	PAB125136	65.1571	65.3402	65.2652	4.9597e-02	6.0251e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.2532	60.7415	60.4412	1.2383e-01	7.6507e-01
102	PRV000001	19.3854	19.5075	19.3879	1.7263e-02	7.5156e-01
103	PSR000001	65.4578	65.5798	65.4675	3.3453e-02	7.6765e-01
104	PFM000001	1.0916	1.3662	1.2197	6.6690e-02	5.0001e-01
105	PAN000136	-137.6197	-134.4153	-136.1182	6.7353e-01	4.9318e+00
106	PFM000002	1.2323	1.2827	1.2518	1.3286e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0022	3.4470e-03	0.0000e+00
108	EMPTY	-9.4775	-8.9404	-9.1746	1.1157e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0023	2.6543e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	99.6244	101.5775	100.7884	5.6766e-01	1.0108e+00
113	VPW000002	119.5275	120.6994	120.2697	2.6762e-01	1.0848e+00
114	VPW000003	147.8741	149.0460	148.3936	3.3157e-01	1.2037e+00
115	VPW000004	104.7927	106.7458	105.9489	4.9887e-01	1.0297e+00
116	VPW000005	139.6146	141.7631	140.7514	5.3480e-01	1.1702e+00
117	VPW000006	146.6271	148.1896	147.5489	4.3412e-01	1.1999e+00
118	IPW000001	518.1971	535.7682	527.9197	3.5167e+00	9.1106e+00
119	IPW000002	1307.8009	1331.2162	1320.0547	5.3189e+00	1.3205e+01
120	IPW000003	1328.3999	1344.0000	1337.6431	4.1657e+00	1.3315e+01
121	IPW000004	374.1079	384.3618	379.4987	2.4602e+00	3.6039e+00
122	IPW000005	251.9655	256.3596	254.4164	1.1050e+00	2.8354e+00
123	IPW000006	265.4748	269.8693	267.9356	8.3682e-01	2.9121e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.8913e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	3.1195e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0154	3.6057e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	4.1102e-03	0.0000e+00
128	IHT000001	131.3026	134.2323	132.4862	6.0026e-01	4.3087e+00
129	IHT000002	131.6744	134.7994	132.9048	6.3411e-01	4.3100e+00
130	IHT000003	131.0246	133.7590	131.9738	5.9058e-01	4.3072e+00
131	IHT000004	131.7082	134.2473	132.6769	6.0869e-01	4.3093e+00
132	IHT000005	128.8912	131.8209	130.0904	6.1764e-01	4.3014e+00
133	IHT000006	125.1277	127.6668	126.1825	5.8394e-01	4.2898e+00
134	IHT000007	129.6311	132.3655	130.7679	6.2601e-01	4.3035e+00
135	IHT000008	129.6537	132.5834	130.8764	6.1487e-01	4.3038e+00
136	IHT000009	130.5063	133.4360	131.7602	6.3637e-01	4.3065e+00
137	IHT000010	129.3307	132.8463	131.0415	6.3938e-01	4.3043e+00
138	IHT000011	133.3684	137.2746	135.2550	6.4187e-01	4.3173e+00
139	IHT000012	127.4639	130.3936	129.1006	5.5368e-01	4.2985e+00
140	IHT000013	90.8804	94.2007	92.7280	6.1916e-01	4.2036e+00
141	IHT000014	127.0320	130.1570	128.7899	6.8573e-01	4.2975e+00
142	IHT000015	94.7378	98.0582	96.6831	6.7998e-01	4.2125e+00
143	IHT000016	86.4708	89.4005	88.0490	7.0458e-01	4.1935e+00
144	IHT000017	105.2434	109.1497	107.3058	9.8739e-01	4.2381e+00
145	IHT000018	107.4482	110.1825	108.9287	6.2152e-01	4.2422e+00
146	IHT000019	103.1588	105.6978	104.7798	5.0417e-01	4.2318e+00
147	IHT000020	106.0247	108.5637	107.6926	5.2676e-01	4.2391e+00
148	IHT000021	-2.5804	-0.0413	-1.2483	5.1703e-01	4.1000e+00
149	IHT000022	90.0053	93.1303	91.7748	7.1726e-01	4.2015e+00
150	IHT000023	105.4012	108.1355	106.9168	6.3204e-01	4.2371e+00
151	IHT000024	70.5266	73.0656	71.9563	5.9378e-01	4.1627e+00
152	IHT000025	102.8921	105.8218	104.4351	6.6057e-01	4.2309e+00
153	IHT000026	104.6800	107.6097	106.1800	6.7363e-01	4.2353e+00
154	IHT000027	87.4850	90.8053	89.2232	7.7750e-01	4.1960e+00
155	IHT000028	89.7611	92.6908	90.9995	6.8415e-01	4.1998e+00

Test: May07_08

sum2

Date: Mon May 7 15:10:51 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2359	107.3843	106.3257	5.7330e-01	4.2356e+00
157	IHT000030	107.2528	109.4013	108.4599	5.6454e-01	4.2410e+00
158	IHT000031	106.1373	108.6764	107.3521	5.6811e-01	4.2382e+00
159	IHT000032	107.5984	109.9421	108.7234	5.7529e-01	4.2417e+00
160	IHT000033	107.5834	109.7318	108.6577	5.8160e-01	4.2415e+00
161	IHT000034	93.7613	96.1050	95.0425	5.8814e-01	4.2087e+00
162	IHT000035	123.8093	126.7390	125.1454	6.1556e-01	4.2867e+00
163	IHT000036	92.2100	94.9444	93.5303	5.8999e-01	4.2053e+00

Test: May07_08 dif Date: Mon May 7 15:10:51 1990 Page: 1

Velocity 1 = 0.008400 (ft/sec)

Velocity 2 = 0.009900 (ft/sec)

Pressure Drop = 0.002300 (psi)

Tsat in = 0.000000 (deg F) Tsat out = 0.045013 (deg F)

Phi inner = 0.094604 (kBtu/hr-ft2) Phi outer = 0.014702 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0127	0.0167
1	TRF000002	0.0930	0.1227
2	TFM000001	0.1318	0.1500
3	TIN000001	0.0737	0.0845
4	TRV000001	0.2898	0.3290
5	TSR000001	1.6185	1.1323
6	TAO020136	0.0438	0.0205
7	TAO050136	0.1447	0.0626
8	TAO070136	0.6441	0.2847
9	TAO080136	0.2478	0.0918
10	TAO090136	0.6206	0.2213
11	TAO100136	0.4598	0.1636
12	TAO105136	1.0070	0.3479
13	TAO110136	0.6859	0.2298
14	TAO115136	0.2024	0.0684
15	TAO120136	0.5232	0.1725
16	TAO125136	0.0887	0.0293
17	TAO130136	0.3030	0.1018
18	TAO120048	0.2329	0.0755
19	TAO130048	0.3846	0.1268
20	TAO120224	0.3853	0.1257
21	TAO130224	0.4677	0.1583
22	TAO120312	0.2659	0.0864
23	TAO130312	0.4171	0.1368
24	TRT020000	0.2137	0.1020
25	TRT070000	0.4730	0.1831
26	TRT100000	0.6221	0.2091
27	TRT120000	0.2511	0.0818
28	TRT125000	0.2132	0.0678
29	TRT130000	0.3086	0.1006
30	EMPTY	0.0046	0.0116
31	TAF050136	0.1172	0.0756
32	TAF070136	0.0488	0.0268
33	TAF080136	0.3998	0.1490
34	TAF090136	1.3532	0.6921
35	TAF100136	1.1867	0.5363
36	TAF105136	0.0140	0.0062
37	TAF110136	0.4534	0.1750
38	TAF115136	0.3618	0.1499
39	TAF120136	0.1259	0.0440
40	TAF125136	0.2979	0.1164
41	TAF130136	0.4241	0.1631
42	TAF120048	0.3020	0.1196
43	TAF130048	0.6630	0.2493
44	TAF120224	0.6326	0.2529
45	TAF130224	0.6136	0.2358

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0413	0.1033
48	TAI130138	0.2012	0.0666
49	TAI130226	0.3561	0.1184
50	TAI130314	0.2450	0.0803
51	TAI130042	0.2121	0.0701
52	TRR130090	0.1414	0.0939
53	TSI000001	0.1663	0.3429
54	TSI000002	0.6169	0.4475
55	TSO000001	0.0019	0.0041
56	TSO000002	0.0746	0.1137
57	TAF020136	0.0646	0.0586
58	TAF120312	0.6636	0.2626
59	TAF130312	0.9902	0.3544
60	EMPTY	0.0247	0.4710
61	EMPTY	0.0245	0.4689
62	EMPTY	0.0254	0.4879
63	EMPTY	0.0269	0.5179
64	EMPTY	0.0124	0.5158
65	EMPTY	0.0107	0.4436
66	EMPTY	0.0113	0.4676
67	EMPTY	0.0123	0.5076
68	EMPTY	0.0115	0.4741
69	EMPTY	0.0127	0.5221
70	EMPTY	0.0127	0.5211
71	EMPTY	0.0120	0.4899
72	EMPTY	0.0128	0.5219
73	EMPTY	0.0129	0.5244
74	EMPTY	0.0121	0.4910
75	EMPTY	0.0137	0.5544
76	EMPTY	0.0127	0.5134
77	EMPTY	0.0121	0.4873
78	EMPTY	0.0124	0.4970
79	EMPTY	0.0125	0.4981
80	PAN020136	0.0382	0.2192
81	PAN050136	0.4609	1.4037
82	PAN070136	0.4334	1.8792
83	PAN080136	0.8621	6.7068
84	PAN090136	0.8072	7.5754
85	PAN100136	0.8683	8.9769
86	PAN105136	0.1709	3.5435
87	PAN110136	0.0412	0.8367
88	PAN115136	0.2029	3.9337
89	PAN120136	0.2732	5.8820
90	PAN125136	0.1435	3.0858
91	PAN130136	0.0107	0.1967
92	PAN120048	0.0870	0.8438
93	PAN130048	0.0061	0.0555
94	PAN120224	0.1663	1.7546
95	PAN130224	0.0259	0.2541
96	PAN120312	0.1190	1.2705
97	PAN130312	0.0595	0.5912
98	PAB000136	0.0000	0.0000
99	PAB100136	0.0137	0.0213
100	PAB125136	0.0431	0.0661

Test: May07_08

dif

Date: Mon May 7 15:10:51 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN0000001	0.0220	0.0364
102	PRV0000001	0.1196	0.6131
103	PSR0000001	0.0219	0.0335
104	PFM0000001	0.0074	0.6031
105	PAN000136	0.0641	0.0471
106	PFM0000002	0.0087	0.6902
107	EMPTY	0.0013	37.1429
108	EMPTY	0.0746	0.8066
109	EMPTY	0.0002	9.5238
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	100.0000
112	VPW0000001	0.0860	0.0853
113	VPW0000002	0.0195	0.0162
114	VPW0000003	0.1680	0.1133
115	VPW0000004	0.1016	0.0960
116	VPW0000005	0.1133	0.0806
117	VPW0000006	0.1757	0.1192
118	IPW0000001	0.2734	0.0518
119	IPW0000002	0.4684	0.0355
120	IPW0000003	0.5457	0.0408
121	IPW0000004	0.0195	0.0051
122	IPW0000005	0.3125	0.1230
123	IPW0000006	0.1953	0.0729
124	EMPTY	0.0002	0.9569
125	EMPTY	0.0004	3.2520
126	EMPTY	0.0007	4.3478
127	EMPTY	0.0005	3.1447
128	IHT0000001	0.0391	0.0295
129	IHT0000002	0.0821	0.0617
130	IHT0000003	0.0469	0.0355
131	IHT0000004	0.0625	0.0471
132	IHT0000005	0.0781	0.0600
133	IHT0000006	0.1132	0.0896
134	IHT0000007	0.0078	0.0060
135	IHT0000008	0.0039	0.0030
136	IHT0000009	0.0000	0.0000
137	IHT0000010	0.2695	0.2061
138	IHT0000011	0.3047	0.2258
139	IHT0000012	0.2773	0.2153
140	IHT0000013	0.2070	0.2237
141	IHT0000014	0.2188	0.1702
142	IHT0000015	0.1367	0.1416
143	IHT0000016	0.0078	0.0089
144	IHT0000017	0.0743	0.0692
145	IHT0000018	0.0821	0.0754
146	IHT0000019	0.1328	0.1269
147	IHT0000020	0.1758	0.1635
148	IHT0000021	0.2891	18.8045
149	IHT0000022	0.1367	0.1492
150	IHT0000023	0.2500	0.2344
151	IHT0000024	0.1719	0.2395
152	IHT0000025	0.1602	0.1536
153	IHT0000026	0.1406	0.1326
154	IHT0000027	0.0430	0.0482
155	IHT0000028	0.3476	0.3805

Test: May07_08 dif Date: Mon May 7 15:10:51 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.2812	0.2638
157	IHT000030	0.4844	0.4446
158	IHT000031	0.2695	0.2504
159	IHT000032	0.2813	0.2581
160	IHT000033	0.3008	0.2761
161	IHT000034	0.1484	0.1559
162	IHT000035	0.1328	0.1060
163	IHT000036	0.1445	0.1543

Test: May07_09

sum1

Date: Mon May 7 15:26:49 1990

Page: 1

Velocity 1 = 2.8016 (ft/sec) (+/- 21.9742 %)
Velocity 2 = 2.9284 (ft/sec) (+/- 7.3908 %)
Pressure drop = -4.9182 (psi)
Tsats in = 292.7267 (deg F) Tsats out = 297.8434 (deg F)
Phi inner = 100.9722 (kBtu/hr-ft2) (+/- 1.4122 %)
Phi outer = 100.8623 (kBtu/hr-ft2) (+/- 1.6189 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.6065	76.2438	76.0695	1.6999e-01	1.9000e+00
1	TRF000002	75.6896	76.1122	76.0276	1.1292e-01	1.9000e+00
2	TFM000001	86.7695	87.6069	87.1653	2.0102e-01	1.9002e+00
3	TIN000001	86.0859	86.7168	86.5213	1.4864e-01	1.9002e+00
4	TRV000001	87.2403	88.2853	87.7859	2.3156e-01	1.9002e+00
5	TSR000001	144.5211	149.2066	146.7739	1.0935e+00	1.9040e+00
6	TAO020136	213.9467	215.5736	214.6033	3.3984e-01	1.9140e+00
7	TAO050136	231.6262	233.8834	232.7012	4.9840e-01	1.9178e+00
8	TAO070136	228.2020	229.6255	228.7921	3.3111e-01	1.9169e+00
9	TAO080136	272.1527	272.8861	272.5482	1.7703e-01	1.9274e+00
10	TAO090136	282.9542	283.8681	283.3687	2.2337e-01	1.9304e+00
11	TAO100136	283.6527	285.3905	284.4120	4.0273e-01	1.9307e+00
12	TAO105136	291.7193	293.5446	292.4077	3.9038e-01	1.9330e+00
13	TAO110136	300.7043	301.8749	301.4131	2.3907e-01	1.9357e+00
14	TAO115136	297.5088	300.0589	298.5014	5.3631e-01	1.9349e+00
15	TAO120136	304.5536	305.7211	305.1941	2.7132e-01	1.9369e+00
16	TAO125136	301.9450	304.0253	302.6131	4.7500e-01	1.9361e+00
17	TAO130136	299.2051	300.6407	299.9865	3.0015e-01	1.9353e+00
18	TAO120048	309.0957	310.0883	309.6211	2.2233e-01	1.9383e+00
19	TAO130048	305.6553	306.4680	306.0878	1.7705e-01	1.9372e+00
20	TAO120224	307.5648	308.7394	308.2061	2.8244e-01	1.9378e+00
21	TAO130224	297.1043	298.9998	298.0605	4.1661e-01	1.9347e+00
22	TAO120312	308.8571	309.9421	309.3544	2.6049e-01	1.9382e+00
23	TAO130312	305.8539	306.5769	306.2679	1.6628e-01	1.9372e+00
24	TRT020000	209.8402	212.1463	211.1111	4.6270e-01	1.9134e+00
25	TRT070000	260.1668	261.4742	260.8857	3.0946e-01	1.9244e+00
26	TRT100000	299.4581	300.3653	299.8958	2.2777e-01	1.9353e+00
27	TRT120000	307.6717	308.6655	308.1220	1.8387e-01	1.9378e+00
28	TRT125000	314.4692	315.4547	315.0273	1.8999e-01	1.9400e+00
29	TRT130000	306.2085	307.5626	306.9290	2.8805e-01	1.9374e+00
30	EMPTY	39.3761	40.0646	39.6332	1.9478e-01	1.9011e+00
31	TAF050136	154.0285	157.4029	155.6118	7.4934e-01	1.9049e+00
32	TAF070136	182.3101	184.8327	183.3445	5.4507e-01	1.9086e+00
33	TAF080136	267.1199	270.1431	268.4152	6.7132e-01	1.9263e+00
34	TAF090136	197.2018	201.4391	198.8727	9.0398e-01	1.9112e+00
35	TAF100136	222.3567	224.6417	223.3035	5.9329e-01	1.9158e+00
36	TAF105136	227.4131	230.0415	228.5607	5.8652e-01	1.9169e+00
37	TAF110136	260.5728	263.1588	261.7129	6.1175e-01	1.9246e+00
38	TAF115136	242.0599	245.8045	243.5791	8.3444e-01	1.9202e+00
39	TAF120136	286.4491	288.7270	287.6320	4.8613e-01	1.9316e+00
40	TAF125136	256.5299	261.3296	258.5119	1.0135e+00	1.9238e+00
41	TAF130136	260.7176	263.3086	262.0966	7.0818e-01	1.9247e+00
42	TAF120048	253.8029	257.0844	255.4184	6.1965e-01	1.9230e+00
43	TAF130048	271.6953	277.3010	273.6542	1.1516e+00	1.9277e+00
44	TAF120224	251.7355	254.3446	253.0163	6.7336e-01	1.9224e+00
45	TAF130224	261.6214	264.9748	263.3524	8.7642e-01	1.9250e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0848	2.0190e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0142	1.0662e-01	1.9011e+00
48	TAI130138	301.8913	303.1607	302.5207	2.9153e-01	1.9361e+00
49	TAI130226	300.7725	301.9466	301.4688	2.3324e-01	1.9358e+00
50	TAI130314	305.2636	306.4434	305.9080	2.5618e-01	1.9371e+00
51	TAI130042	303.5368	304.8051	304.1331	2.9131e-01	1.9366e+00
52	TRR130090	151.9007	153.6906	152.7022	4.5957e-01	1.9046e+00
53	TSI000001	48.1476	48.9056	48.5617	1.8107e-01	1.9003e+00
54	TSI000002	138.1869	139.4941	138.8894	2.9931e-01	1.9032e+00
55	TSO000001	45.8860	46.5396	46.2458	1.8034e-01	1.9004e+00
56	TSO000002	65.3677	66.3278	66.0056	1.8472e-01	1.9000e+00
57	TAF020136	108.6987	111.2868	109.8984	6.1161e-01	1.9011e+00
58	TAF120312	253.3156	256.6579	255.0671	7.4715e-01	1.9229e+00
59	TAF130312	279.2631	283.5605	281.4864	8.8373e-01	1.9299e+00
60	EMPTY	5.2686	5.3174	5.2959	1.1419e-02	0.0000e+00
61	EMPTY	5.2588	5.2881	5.2757	8.4406e-03	0.0000e+00
62	EMPTY	5.2393	5.2686	5.2561	7.1245e-03	0.0000e+00
63	EMPTY	5.2295	5.2539	5.2450	5.8102e-03	0.0000e+00
64	EMPTY	2.4170	2.4268	2.4219	2.6100e-03	0.0000e+00
65	EMPTY	2.4268	2.4365	2.4303	2.4244e-03	0.0000e+00
66	EMPTY	2.4316	2.4365	2.4348	2.3675e-03	0.0000e+00
67	EMPTY	2.4365	2.4463	2.4408	2.3428e-03	0.0000e+00
68	EMPTY	2.4414	2.4463	2.4440	2.4583e-03	0.0000e+00
69	EMPTY	2.4463	2.4561	2.4502	2.2058e-03	0.0000e+00
70	EMPTY	2.4512	2.4609	2.4555	2.1249e-03	0.0000e+00
71	EMPTY	2.4658	2.4707	2.4680	2.4484e-03	0.0000e+00
72	EMPTY	2.4658	2.4756	2.4707	1.7086e-03	0.0000e+00
73	EMPTY	2.4756	2.4805	2.4787	2.3675e-03	0.0000e+00
74	EMPTY	2.4805	2.4854	2.4832	2.4484e-03	0.0000e+00
75	EMPTY	2.4854	2.4951	2.4899	2.0716e-03	0.0000e+00
76	EMPTY	2.4902	2.4951	2.4933	2.3941e-03	0.0000e+00
77	EMPTY	2.5000	2.5049	2.5013	2.1635e-03	0.0000e+00
78	EMPTY	2.5098	2.5195	2.5138	2.1364e-03	0.0000e+00
79	EMPTY	2.5244	2.5342	2.5278	2.4662e-03	0.0000e+00
80	PAN020136	-18.1608	-17.7030	-17.9060	1.1901e-01	8.7115e-01
81	PAN050136	-33.1772	-32.5668	-32.9177	1.6385e-01	1.6820e+00
82	PAN070136	-24.7673	-23.7755	-24.2470	2.4982e-01	8.7211e-01
83	PAN080136	-11.8943	-9.5292	-10.9147	5.3846e-01	8.7043e-01
84	PAN090136	-11.6596	-2.3517	-10.1566	1.4788e+00	8.7037e-01
85	PAN100136	-12.3551	-8.5404	-10.2693	6.8666e-01	8.7038e-01
86	PAN105136	-6.5899	-3.8433	-5.1220	4.6435e-01	8.7009e-01
87	PAN110136	-5.4748	-3.3385	-4.7500	3.8170e-01	8.7008e-01
88	PAN115136	-6.2231	-4.0105	-4.9810	4.3159e-01	8.7009e-01
89	PAN120136	-5.3221	-3.5674	-4.7835	3.9790e-01	8.7008e-01
90	PAN125136	-6.0939	-5.3310	-5.8925	2.2056e-01	8.7012e-01
91	PAN130136	-4.6956	-1.1861	-3.5177	9.9274e-01	8.7004e-01
92	PAN120048	-11.1828	-10.1909	-10.7586	2.2504e-01	8.7042e-01
93	PAN130048	-10.7177	-10.2599	-10.5880	1.1248e-01	8.7040e-01
94	PAN120224	-10.1587	-9.4720	-9.8306	1.6037e-01	8.7035e-01
95	PAN130224	-10.0854	-9.4750	-9.8367	1.3332e-01	8.7035e-01
96	PAN120312	-10.1397	-8.5375	-9.6025	4.1673e-01	8.7033e-01
97	PAN130312	-10.2026	-9.6686	-9.9203	1.0369e-01	8.7035e-01
98	PAB000136	59.9238	60.2442	60.1068	6.8587e-02	5.9915e-01
99	PAB100136	63.6915	64.0119	63.8334	8.1284e-02	6.0155e-01
100	PAB125136	64.6536	65.0656	64.8596	1.0676e-01	6.0224e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.6429	60.2532	59.9578	1.3751e-01	7.6483e-01
102	PRV000001	19.5075	19.6296	19.6125	4.2787e-02	7.5160e-01
103	PSR000001	64.8474	65.0916	65.0256	6.6221e-02	7.6742e-01
104	PFM000001	1.0000	1.2747	1.1410	7.2136e-02	5.0001e-01
105	PAN000136	-138.0775	-133.4998	-136.1640	1.0075e+00	4.9318e+00
106	PFM000002	1.1988	1.2827	1.2501	1.6402e-02	2.0002e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-8.8818	-7.9736	-8.4694	2.3715e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0000	1.3951e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0026	2.4583e-03	0.0000e+00
112	VPW000001	100.4056	100.9916	100.7572	1.4764e-01	1.0107e+00
113	VPW000002	119.9181	120.3087	120.0861	1.3675e-01	1.0841e+00
114	VPW000003	147.8741	148.6553	148.2647	1.8508e-01	1.2031e+00
115	VPW000004	105.3786	106.1599	105.7497	1.9828e-01	1.0289e+00
116	VPW000005	140.2006	140.9818	140.5405	2.2944e-01	1.1693e+00
117	VPW000006	146.8224	147.7990	147.3302	2.0504e-01	1.1990e+00
118	IPW000001	541.6252	555.2916	548.4584	3.5772e+00	9.1860e+00
119	IPW000002	1294.1421	1301.9471	1297.6932	2.0366e+00	1.3066e+01
120	IPW000003	1310.8500	1322.5499	1317.3629	3.0671e+00	1.3188e+01
121	IPW000004	378.9908	382.4087	380.7194	7.4614e-01	3.6119e+00
122	IPW000005	252.4538	254.8949	253.5767	4.9565e-01	2.8307e+00
123	IPW000006	264.9865	266.9396	265.8360	4.7114e-01	2.9001e+00
124	EMPTY	-0.0342	-0.0146	-0.0227	3.6593e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0156	3.2718e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0198	3.0261e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0189	3.6433e-03	0.0000e+00
128	IHT000001	130.9120	133.2557	132.3573	5.4104e-01	4.3083e+00
129	IHT000002	131.2838	133.6275	132.7447	4.8366e-01	4.3095e+00
130	IHT000003	130.2434	132.7824	131.9582	5.2391e-01	4.3071e+00
131	IHT000004	131.1223	133.8567	132.5793	5.4134e-01	4.3090e+00
132	IHT000005	128.6959	131.0397	130.0982	5.4632e-01	4.3015e+00
133	IHT000006	124.9324	127.2761	126.2176	5.0700e-01	4.2899e+00
134	IHT000007	129.6311	131.9749	130.7210	5.0546e-01	4.3033e+00
135	IHT000008	129.8490	131.9975	130.7749	4.9412e-01	4.3035e+00
136	IHT000009	130.7016	133.0454	131.6548	5.0477e-01	4.3062e+00
137	IHT000010	129.7213	131.8697	130.7642	4.8425e-01	4.3035e+00
138	IHT000011	133.9543	135.9075	134.8683	4.8075e-01	4.3161e+00
139	IHT000012	127.8545	130.0030	128.7608	5.1864e-01	4.2974e+00
140	IHT000013	91.4663	93.6148	92.4429	4.8808e-01	4.2029e+00
141	IHT000014	127.4226	129.5711	128.3914	5.2787e-01	4.2963e+00
142	IHT000015	95.3238	97.4722	96.3706	4.6649e-01	4.2117e+00
143	IHT000016	87.0568	89.0099	87.8888	4.6657e-01	4.1931e+00
144	IHT000017	104.6575	108.7590	106.5949	1.1047e+00	4.2363e+00
145	IHT000018	107.4482	110.1825	108.7216	5.9220e-01	4.2417e+00
146	IHT000019	103.1588	105.5025	104.4947	5.6546e-01	4.2311e+00
147	IHT000020	105.8293	108.3684	107.2668	5.9551e-01	4.2380e+00
148	IHT000021	-3.1663	-0.2366	-1.6155	7.2374e-01	4.1000e+00
149	IHT000022	90.2006	92.5443	91.5639	5.6150e-01	4.2010e+00
150	IHT000023	105.4012	107.7449	106.4832	6.0000e-01	4.2360e+00
151	IHT000024	70.5266	72.6750	71.6203	5.5943e-01	4.1621e+00
152	IHT000025	102.6968	105.4312	104.0483	5.6750e-01	4.2300e+00
153	IHT000026	104.4847	107.0237	105.8011	5.6471e-01	4.2343e+00
154	IHT000027	87.6803	90.0240	88.9927	5.6087e-01	4.1955e+00
155	IHT000028	89.9564	92.1049	90.8666	5.7536e-01	4.1995e+00

Test: May07_09

sum1

Date: Mon May 7 15:26:49 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.0406	107.5796	106.0483	5.9236e-01	4.2349e+00
157	IHT000030	107.0575	109.7919	108.2060	6.0828e-01	4.2404e+00
158	IHT000031	105.9420	108.2858	107.0240	5.7752e-01	4.2374e+00
159	IHT000032	107.2078	109.9421	108.3875	5.9446e-01	4.2408e+00
160	IHT000033	106.9975	109.9271	108.3178	6.1708e-01	4.2407e+00
161	IHT000034	93.7613	95.9097	94.6011	4.9166e-01	4.2077e+00
162	IHT000035	123.8093	125.7625	124.7079	4.6855e-01	4.2855e+00
163	IHT000036	92.4053	94.1631	93.1787	4.4110e-01	4.2045e+00

Velocity 1 = 2.7600 (ft/sec) (+/- 22.6614 %)
Velocity 2 = 2.8970 (ft/sec) (+/- 7.5487 %)
Pressure drop = -4.9034 (psi)
Tsats in = 293.2228 (deg F) Tsats out = 298.3043 (deg F)
Phi inner = 101.1869 (kBtu/hr-ft2) (+/- 1.4116 %)
Phi outer = 101.0591 (kBtu/hr-ft2) (+/- 1.6184 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	75.8189	76.4561	76.1078	1.6486e-01	1.9000e+00
1	TRF000002	75.9009	76.3234	76.0826	1.5394e-01	1.9000e+00
2	TFM000001	86.8742	87.8173	87.4459	1.9197e-01	1.9002e+00
3	TIN000001	86.4019	87.1370	86.7482	1.7138e-01	1.9002e+00
4	TRV000001	87.4496	88.2853	87.8946	2.0016e-01	1.9002e+00
5	TSR000001	148.0108	149.9037	148.9420	5.0836e-01	1.9042e+00
6	TAO020136	214.3290	215.7643	215.0893	2.8753e-01	1.9141e+00
7	TAO050136	232.7549	234.3520	233.4979	3.5668e-01	1.9179e+00
8	TAO070136	230.1945	232.8468	231.1021	5.2872e-01	1.9174e+00
9	TAO080136	272.7959	274.0780	273.3358	3.0273e-01	1.9277e+00
10	TAO090136	283.7762	285.0554	284.4030	3.0947e-01	1.9307e+00
11	TAO100136	284.0192	286.0299	285.1251	4.5506e-01	1.9309e+00
12	TAO105136	292.4494	294.2737	293.3384	4.0447e-01	1.9333e+00
13	TAO110136	301.8749	302.7747	302.3117	2.0657e-01	1.9360e+00
14	TAO115136	298.4198	300.4230	299.4270	3.9774e-01	1.9351e+00
15	TAO120136	305.3622	306.1703	305.7078	1.7526e-01	1.9371e+00
16	TAO125136	302.6690	304.4770	303.6147	3.8837e-01	1.9364e+00
17	TAO130136	300.2804	302.5172	300.9341	4.4910e-01	1.9356e+00
18	TAO120048	309.5468	310.7195	310.2057	2.2855e-01	1.9385e+00
19	TAO130048	306.8280	309.6194	307.5402	6.1837e-01	1.9376e+00
20	TAO120224	308.3779	309.4615	308.8783	2.5042e-01	1.9381e+00
21	TAO130224	297.8275	299.4507	298.5906	3.6351e-01	1.9349e+00
22	TAO120312	309.3091	310.6651	310.0342	2.8498e-01	1.9384e+00
23	TAO130312	306.0345	307.0285	306.4341	2.1055e-01	1.9373e+00
24	TRT020000	210.4176	212.7230	211.5797	5.3818e-01	1.9135e+00
25	TRT070000	260.9143	262.0333	261.4571	2.9711e-01	1.9245e+00
26	TRT100000	300.2737	301.0895	300.6566	1.8341e-01	1.9355e+00
27	TRT120000	307.6721	309.3879	308.6854	3.1616e-01	1.9380e+00
28	TRT125000	311.9647	315.7238	314.4264	1.1967e+00	1.9398e+00
29	TRT130000	303.7714	307.0215	305.5250	9.5698e-01	1.9370e+00
30	EMPTY	39.1464	40.0646	39.5919	2.0952e-01	1.9011e+00
31	TAF050136	154.5276	157.0066	155.7509	6.3075e-01	1.9049e+00
32	TAF070136	182.0189	186.7716	183.8569	9.1543e-01	1.9087e+00
33	TAF080136	267.4852	294.4254	274.0880	8.3806e+00	1.9279e+00
34	TAF090136	197.9727	201.1506	199.3660	8.4582e-01	1.9112e+00
35	TAF100136	222.1661	228.3473	224.4375	1.4057e+00	1.9160e+00
36	TAF105136	227.8823	231.3557	229.3155	7.7860e-01	1.9170e+00
37	TAF110136	260.2953	263.4363	262.2413	6.6217e-01	1.9247e+00
38	TAF115136	242.8089	245.3365	243.9874	6.4002e-01	1.9203e+00
39	TAF120136	287.2687	289.0907	288.0475	3.8257e-01	1.9318e+00
40	TAF125136	256.5299	259.9470	258.1873	7.2300e-01	1.9237e+00
41	TAF130136	261.3661	270.0439	263.5236	1.8387e+00	1.9251e+00
42	TAF120048	254.7414	257.3645	256.0669	5.3715e-01	1.9232e+00
43	TAF130048	270.7741	297.8302	278.8315	7.6730e+00	1.9292e+00
44	TAF120224	252.2953	255.5546	253.7726	8.3865e-01	1.9226e+00
45	TAF130224	262.3667	265.2527	263.7137	6.6772e-01	1.9251e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	2.1911e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	39.9728	2.8575e-01	1.9011e+00
48	TAI130138	302.4357	303.4327	302.9014	2.5175e-01	1.9362e+00
49	TAI130226	301.4054	302.5792	301.8735	2.7603e-01	1.9359e+00
50	TAI130314	305.4453	307.1688	306.2492	3.7610e-01	1.9372e+00
51	TAI130042	304.0807	306.6169	304.9957	6.4575e-01	1.9368e+00
52	TRR130090	151.1047	154.1873	152.6028	8.2234e-01	1.9046e+00
53	TSI000001	47.8242	48.6898	48.2292	2.0943e-01	1.9003e+00
54	TSI000002	138.0880	140.0968	138.9859	3.9004e-01	1.9032e+00
55	TSO000001	45.6686	46.6479	46.1017	2.0323e-01	1.9004e+00
56	TSO000002	65.2610	66.3283	65.9076	2.5073e-01	1.9000e+00
57	TAF020136	108.1797	111.2862	109.9603	6.0000e-01	1.9011e+00
58	TAF120312	253.4080	256.9351	255.2751	7.9993e-01	1.9230e+00
59	TAF130312	278.3480	283.6517	280.2499	1.2315e+00	1.9296e+00
60	EMPTY	5.2393	5.3027	5.2634	1.7931e-02	0.0000e+00
61	EMPTY	5.2246	5.2686	5.2448	1.2478e-02	0.0000e+00
62	EMPTY	5.2100	5.2441	5.2265	1.0199e-02	0.0000e+00
63	EMPTY	5.2002	5.2295	5.2159	7.7857e-03	0.0000e+00
64	EMPTY	2.4072	2.4170	2.4122	3.7551e-03	0.0000e+00
65	EMPTY	2.4170	2.4268	2.4208	3.3146e-03	0.0000e+00
66	EMPTY	2.4170	2.4316	2.4244	3.4513e-03	0.0000e+00
67	EMPTY	2.4268	2.4365	2.4312	3.5908e-03	0.0000e+00
68	EMPTY	2.4316	2.4365	2.4338	2.4484e-03	0.0000e+00
69	EMPTY	2.4365	2.4463	2.4405	3.6500e-03	0.0000e+00
70	EMPTY	2.4414	2.4512	2.4452	3.4583e-03	0.0000e+00
71	EMPTY	2.4512	2.4609	2.4578	2.9197e-03	0.0000e+00
72	EMPTY	2.4561	2.4658	2.4609	2.9594e-03	0.0000e+00
73	EMPTY	2.4609	2.4707	2.4680	2.8179e-03	0.0000e+00
74	EMPTY	2.4658	2.4756	2.4729	2.9856e-03	0.0000e+00
75	EMPTY	2.4756	2.4854	2.4790	2.4662e-03	0.0000e+00
76	EMPTY	2.4756	2.4854	2.4830	2.8317e-03	0.0000e+00
77	EMPTY	2.4854	2.4951	2.4916	3.5623e-03	0.0000e+00
78	EMPTY	2.5000	2.5049	2.5026	2.4583e-03	0.0000e+00
79	EMPTY	2.5098	2.5195	2.5168	2.8179e-03	0.0000e+00
80	PAN020136	-18.0845	-17.5505	-17.7992	1.2118e-01	8.7114e-01
81	PAN050136	-33.3297	-32.5668	-32.9971	2.0838e-01	1.6820e+00
82	PAN070136	-24.6910	-17.4431	-23.3192	1.8146e+00	8.7195e-01
83	PAN080136	-13.8780	-6.4012	-11.4213	1.7602e+00	8.7047e-01
84	PAN090136	-12.0411	-3.7250	-10.0330	1.5681e+00	8.7036e-01
85	PAN100136	-12.4314	-8.4641	-10.2097	7.4572e-01	8.7037e-01
86	PAN105136	-5.9032	-3.2329	-5.0106	5.5836e-01	8.7009e-01
87	PAN110136	-5.5511	-3.9489	-4.8995	4.2105e-01	8.7009e-01
88	PAN115136	-5.9179	-4.2394	-5.0115	3.1349e-01	8.7009e-01
89	PAN120136	-5.3221	-3.6437	-4.7087	3.0749e-01	8.7008e-01
90	PAN125136	-6.0939	-5.1021	-5.4881	3.4583e-01	8.7011e-01
91	PAN130136	-4.9245	-1.4913	-4.2241	6.8321e-01	8.7006e-01
92	PAN120048	-11.1065	-10.2672	-10.7662	1.9631e-01	8.7042e-01
93	PAN130048	-11.1754	-10.0310	-10.7238	3.0080e-01	8.7041e-01
94	PAN120224	-10.0061	-8.7854	-9.5392	3.0269e-01	8.7033e-01
95	PAN130224	-10.0091	-9.5513	-9.8077	1.0427e-01	8.7035e-01
96	PAN120312	-9.9871	-9.3767	-9.7124	1.5567e-01	8.7034e-01
97	PAN130312	-10.0500	-9.5160	-9.8227	1.4252e-01	8.7035e-01
98	PAB000136	60.4273	60.6562	60.5573	6.1596e-02	5.9943e-01
99	PAB100136	64.0119	64.4239	64.2756	6.6407e-02	6.0185e-01
100	PAB125136	65.1571	65.4318	65.3000	6.3833e-02	6.0254e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	60.1312	60.4974	60.3313	9.1482e-02	7.6502e-01
102	PRV000001	19.5075	19.6296	19.5368	5.2663e-02	7.5159e-01
103	PSR000001	65.3357	65.5798	65.4724	4.7052e-02	7.6765e-01
104	PFM000001	1.0000	1.1831	1.1062	6.7607e-02	5.0001e-01
105	PAN000136	-138.0775	-134.4153	-135.7520	7.6173e-01	4.9317e+00
106	PFM000002	1.1988	1.2659	1.2226	2.3993e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0044	2.0337e-03	0.0000e+00
108	EMPTY	-9.1553	-8.2715	-8.7680	2.2734e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0011	2.0432e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0007	1.7115e-03	0.0000e+00
112	VPW000001	100.2103	101.3822	100.8080	3.1668e-01	1.0109e+00
113	VPW000002	119.7228	120.5040	120.1329	1.9828e-01	1.0843e+00
114	VPW000003	147.6788	148.8506	148.3194	2.4015e-01	1.2033e+00
115	VPW000004	104.9880	106.5505	105.7341	3.5225e-01	1.0289e+00
116	VPW000005	140.0053	141.5678	140.5678	3.7774e-01	1.1694e+00
117	VPW000006	146.8224	147.9943	147.3536	2.8190e-01	1.1991e+00
118	IPW000001	543.5775	551.3869	546.3499	2.2689e+00	9.1782e+00
119	IPW000002	1292.1908	1309.7522	1299.9960	4.0587e+00	1.3080e+01
120	IPW000003	1312.7999	1328.3999	1319.5859	3.2782e+00	1.3202e+01
121	IPW000004	380.4556	387.2915	383.8346	1.5214e+00	3.6325e+00
122	IPW000005	252.4538	256.8478	254.1234	9.4657e-01	2.8338e+00
123	IPW000006	264.9865	268.4045	266.4513	7.2491e-01	2.9036e+00
124	EMPTY	-0.0342	-0.0146	-0.0235	4.1491e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.4164e-03	0.0000e+00
126	EMPTY	-0.0293	-0.0098	-0.0201	4.0241e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
128	IHT000001	131.4979	134.4276	132.5721	6.0522e-01	4.3090e+00
129	IHT000002	132.0650	134.7994	133.0220	6.1795e-01	4.3104e+00
130	IHT000003	131.2199	133.5637	132.1886	5.6629e-01	4.3078e+00
131	IHT000004	131.9035	134.2473	132.8136	5.5469e-01	4.3098e+00
132	IHT000005	129.2819	131.8209	130.2037	5.5529e-01	4.3018e+00
133	IHT000006	125.5183	127.8621	126.3739	6.0217e-01	4.2903e+00
134	IHT000007	130.0218	132.7561	130.8695	5.6581e-01	4.3038e+00
135	IHT000008	129.8490	132.1928	130.9780	5.4575e-01	4.3041e+00
136	IHT000009	130.8969	133.2407	131.9009	5.0534e-01	4.3069e+00
137	IHT000010	129.9166	132.6510	130.8619	5.9367e-01	4.3038e+00
138	IHT000011	133.9543	136.6887	134.9699	6.0875e-01	4.3164e+00
139	IHT000012	127.8545	130.5889	128.8389	6.3130e-01	4.2977e+00
140	IHT000013	91.4663	94.2007	92.4468	6.8401e-01	4.2029e+00
141	IHT000014	127.2273	130.3523	128.4227	7.1859e-01	4.2964e+00
142	IHT000015	95.1285	97.6675	96.3902	6.8255e-01	4.2118e+00
143	IHT000016	86.6662	89.4005	87.9435	6.3774e-01	4.1933e+00
144	IHT000017	104.8528	107.1965	105.9543	6.6352e-01	4.2347e+00
145	IHT000018	107.2529	110.1825	108.6357	7.2420e-01	4.2415e+00
146	IHT000019	103.5494	105.6978	104.4712	5.4109e-01	4.2310e+00
147	IHT000020	106.2200	108.7590	107.2785	5.6921e-01	4.2380e+00
148	IHT000021	-2.7757	-0.2366	-1.5960	5.7987e-01	4.1000e+00
149	IHT000022	90.3959	92.7396	91.5522	5.4653e-01	4.2010e+00
150	IHT000023	105.5965	107.5496	106.5418	4.5397e-01	4.2362e+00
151	IHT000024	70.7219	72.4797	71.6203	4.3405e-01	4.1621e+00
152	IHT000025	103.0875	105.2359	104.0835	4.6730e-01	4.2301e+00
153	IHT000026	104.8753	106.8284	105.8089	4.5556e-01	4.2343e+00
154	IHT000027	88.0709	90.2193	88.9732	5.7303e-01	4.1954e+00
155	IHT000028	89.5658	91.9096	90.7338	5.7112e-01	4.1992e+00

Test: May07_09

sum2

Date: Mon May 7 15:26:49 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8453	106.9937	105.9429	5.7978e-01	4.2347e+00
157	IHT000030	106.8622	109.2060	108.0029	5.7772e-01	4.2399e+00
158	IHT000031	105.9420	108.0904	106.9185	5.9843e-01	4.2371e+00
159	IHT000032	107.2078	109.5515	108.2625	5.9189e-01	4.2405e+00
160	IHT000033	106.9975	109.3412	108.1928	5.7269e-01	4.2403e+00
161	IHT000034	93.5660	95.7144	94.4722	4.9246e-01	4.2074e+00
162	IHT000035	123.6140	125.7625	124.6571	5.1992e-01	4.2853e+00
163	IHT000036	92.0147	94.1631	93.0576	5.1389e-01	4.2043e+00

Test: May07_09 dif Date: Mon May 7 15:26:49 1990 Page: 1

Velocity 1 = 0.041600 (ft/sec)

Velocity 2 = 0.031400 (ft/sec)

Pressure Drop = 0.014800 (psi)

Tsat in = 0.496094 (deg F) Tsat out = 0.460876 (deg F)

Phi inner = 0.214699 (kBtu/hr-ft2) Phi outer = 0.196800 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0383	0.0503
1	TRF000002	0.0550	0.0723
2	TFM000001	0.2806	0.3219
3	TIN000001	0.2269	0.2622
4	TRV000001	0.1087	0.1238
5	TSR000001	2.1681	1.4772
6	TAO020136	0.4860	0.2265
7	TAO050136	0.7967	0.3424
8	TAO070136	2.3100	1.0096
9	TAO080136	0.7876	0.2890
10	TAO090136	1.0343	0.3650
11	TAO100136	0.7131	0.2507
12	TAO105136	0.9307	0.3183
13	TAO110136	0.8986	0.2981
14	TAO115136	0.9256	0.3101
15	TAO120136	0.5137	0.1683
16	TAO125136	1.0016	0.3310
17	TAO130136	0.9476	0.3159
18	TAO120048	0.5846	0.1888
19	TAO130048	1.4524	0.4745
20	TAO120224	0.6722	0.2181
21	TAO130224	0.5301	0.1779
22	TAO120312	0.6798	0.2198
23	TAO130312	0.1662	0.0543
24	TRT020000	0.4686	0.2220
25	TRT070000	0.5714	0.2190
26	TRT100000	0.7608	0.2537
27	TRT120000	0.5634	0.1828
28	TRT125000	0.6009	0.1908
29	TRT130000	1.4040	0.4574
30	EMPTY	0.0413	0.1042
31	TAF050136	0.1391	0.0894
32	TAF070136	0.5124	0.2795
33	TAF080136	5.6728	2.1135
34	TAF090136	0.4933	0.2480
35	TAF100136	1.1340	0.5078
36	TAF105136	0.7548	0.3302
37	TAF110136	0.5284	0.2019
38	TAF115136	0.4083	0.1676
39	TAF120136	0.4155	0.1445
40	TAF125136	0.3246	0.1256
41	TAF130136	1.4270	0.5445
42	TAF120048	0.6485	0.2539
43	TAF130048	5.1773	1.8919
44	TAF120224	0.7563	0.2989
45	TAF130224	0.3613	0.1372

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0483
47	EMPTY	0.0414	0.1035
48	TAI130138	0.3807	0.1258
49	TAI130226	0.4047	0.1342
50	TAI130314	0.3412	0.1115
51	TAI130042	0.8626	0.2836
52	TRR130090	0.0994	0.0651
53	TSI000001	0.3325	0.6847
54	TSI000002	0.0965	0.0695
55	TSO000001	0.1441	0.3116
56	TSO000002	0.0980	0.1485
57	TAF020136	0.0619	0.0563
58	TAF120312	0.2080	0.0816
59	TAF130312	1.2365	0.4393
60	EMPTY	0.0325	0.6137
61	EMPTY	0.0309	0.5857
62	EMPTY	0.0296	0.5632
63	EMPTY	0.0291	0.5548
64	EMPTY	0.0097	0.4005
65	EMPTY	0.0095	0.3909
66	EMPTY	0.0104	0.4271
67	EMPTY	0.0096	0.3933
68	EMPTY	0.0102	0.4173
69	EMPTY	0.0097	0.3959
70	EMPTY	0.0103	0.4195
71	EMPTY	0.0102	0.4133
72	EMPTY	0.0098	0.3966
73	EMPTY	0.0107	0.4317
74	EMPTY	0.0103	0.4148
75	EMPTY	0.0109	0.4378
76	EMPTY	0.0103	0.4131
77	EMPTY	0.0097	0.3878
78	EMPTY	0.0112	0.4455
79	EMPTY	0.0110	0.4352
80	PAN020136	0.1068	0.5964
81	PAN050136	0.0794	0.2412
82	PAN070136	0.9278	3.826
83	PAN080136	0.5066	4.6415
84	PAN090136	0.1236	1.2169
85	PAN100136	0.0596	0.5804
86	PAN105136	0.1114	2.1749
87	PAN110136	0.1495	3.1474
88	PAN115136	0.0305	0.6123
89	PAN120136	0.0748	1.5637
90	PAN125136	0.4044	6.8630
91	PAN130136	0.7064	20.0813
92	PAN120048	0.0076	0.0706
93	PAN130048	0.1358	1.2826
94	PAN120224	0.2914	2.9642
95	PAN130224	0.0290	0.2948
96	PAN120312	0.1099	1.1445
97	PAN130312	0.0976	0.9838
98	PAB000136	0.4505	0.7495
99	PAB100136	0.4422	0.6927
100	PAB125136	0.4404	0.6790

Test: May07_09

dif

Date: Mon May 7 15:26:49 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.3735	0.6229
102	PRV000001	0.0757	0.3860
103	PSR000001	0.4468	0.6871
104	PFM000001	0.0348	3.0500
105	PAN000136	0.4120	0.3026
106	PFM000002	0.0275	2.1998
107	EMPTY	0.0004	8.3333
108	EMPTY	0.2986	3.5256
109	EMPTY	0.0011	100.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0019	73.0769
112	VPW000001	0.0508	0.0504
113	VPW000002	0.0468	0.0390
114	VPW000003	0.0547	0.0369
115	VPW000004	0.0156	0.0148
116	VPW000005	0.0273	0.0194
117	VPW000006	0.0234	0.0159
118	IPW000001	2.1085	0.3844
119	IPW000002	2.3027	0.1774
120	IPW000003	2.2230	0.1687
121	IPW000004	3.1152	0.8182
122	IPW000005	0.5467	0.2156
123	IPW000006	0.6153	0.2315
124	EMPTY	0.0008	3.5242
125	EMPTY	0.0010	6.4103
126	EMPTY	0.0003	1.5151
127	EMPTY	0.0022	11.6402
128	IHT000001	0.2148	0.1623
129	IHT000002	0.2773	0.2089
130	IHT000003	0.2304	0.1746
131	IHT000004	0.2343	0.1767
132	IHT000005	0.1055	0.0811
133	IHT000006	0.1563	0.1238
134	IHT000007	0.1485	0.1136
135	IHT000008	0.2031	0.1553
136	IHT000009	0.2461	0.1869
137	IHT000010	0.0977	0.0747
138	IHT000011	0.1016	0.0753
139	IHT000012	0.0781	0.0607
140	IHT000013	0.0039	0.0042
141	IHT000014	0.0313	0.0244
142	IHT000015	0.0196	0.0203
143	IHT000016	0.0547	0.0622
144	IHT000017	0.6406	0.6010
145	IHT000018	0.0859	0.0790
146	IHT000019	0.0235	0.0225
147	IHT000020	0.0117	0.0109
148	IHT000021	0.0195	1.2071
149	IHT000022	0.0117	0.0128
150	IHT000023	0.0586	0.0550
151	IHT000024	0.0000	0.0000
152	IHT000025	0.0352	0.0338
153	IHT000026	0.0078	0.0074
154	IHT000027	0.0195	0.0219
155	IHT000028	0.1328	0.1461

Test: May07_09 dif Date: Mon May 7 15:26:49 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1054	0.0994
157	IHT000030	0.2031	0.1877
158	IHT000031	0.1055	0.0986
159	IHT000032	0.1250	0.1153
160	IHT000033	0.1250	0.1154
161	IHT000034	0.1289	0.1363
162	IHT000035	0.0508	0.0407
163	IHT000036	0.1211	0.1300

Velocity 1 = 26.0080 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4147 (ft/sec) (+/- 1.7033 %)
Pressure drop = 18.4407 (psi)
Tsat in = 267.7314 (deg F) Tsat out = 234.3379 (deg F)
Phi inner = 101.7056 (kBtu/hr-ft2) (+/- 1.4099 %)
Phi outer = 101.7048 (kBtu/hr-ft2) (+/- 1.6168 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	70.8686	71.5087	71.1631	1.6632e-01	1.9000e+00
1	TRF000002	71.0830	71.7196	71.3843	1.2194e-01	1.9000e+00
2	TFM000001	86.4214	87.2605	86.6988	2.1365e-01	1.9002e+00
3	TIN000001	86.1836	87.1294	86.6000	1.8992e-01	1.9002e+00
4	TRV000001	86.4261	87.2647	86.7910	2.0098e-01	1.9002e+00
5	TSR000001	107.3613	108.2876	107.8383	2.2561e-01	1.9010e+00
6	TAO020136	110.2018	111.2338	110.6644	2.5118e-01	1.9011e+00
7	TAO050136	107.7918	108.5123	108.1709	1.5352e-01	1.9010e+00
8	TAO070136	110.1371	111.0667	110.5876	1.8981e-01	1.9011e+00
9	TAO080136	115.0996	115.9186	115.5008	1.7397e-01	1.9014e+00
10	TAO090136	116.1207	116.8379	116.5062	2.0646e-01	1.9015e+00
11	TAO100136	112.9453	113.7672	113.2867	1.8625e-01	1.9013e+00
12	TAO105136	114.5054	115.4304	115.0236	1.9909e-01	1.9014e+00
13	TAO110136	116.4345	117.0477	116.6883	1.5607e-01	1.9015e+00
14	TAO115136	114.5466	115.3699	114.9213	1.8453e-01	1.9014e+00
15	TAO120136	119.1077	119.7200	119.4552	1.4130e-01	1.9016e+00
16	TAO125136	115.3666	116.1861	115.7886	1.5166e-01	1.9014e+00
17	TAO130136	115.0822	115.6951	115.4264	1.5119e-01	1.9014e+00
18	TAO120048	120.1186	120.7319	120.3153	1.7743e-01	1.9017e+00
19	TAO130048	117.3060	118.0222	117.6053	1.3850e-01	1.9015e+00
20	TAO120224	118.6433	119.3602	118.9096	1.5618e-01	1.9016e+00
21	TAO130224	114.1963	114.9139	114.5777	1.3410e-01	1.9013e+00
22	TAO120312	118.4043	119.1215	118.8631	1.7826e-01	1.9016e+00
23	TAO130312	118.9921	119.6057	119.3115	1.4409e-01	1.9016e+00
24	TRT020000	109.0172	109.9471	109.5668	1.8961e-01	1.9011e+00
25	TRT070000	113.0247	113.7462	113.3335	1.4581e-01	1.9013e+00
26	TRT100000	120.9300	121.5427	121.2774	1.6865e-01	1.9018e+00
27	TRT120000	119.4058	120.0195	119.7047	1.4439e-01	1.9017e+00
28	TRT125000	122.0448	122.7584	122.3267	1.8327e-01	1.9018e+00
29	TRT130000	120.4406	121.1559	120.7962	1.6147e-01	1.9017e+00
30	EMPTY	39.1464	39.8352	39.5459	2.4459e-01	1.9011e+00
31	TAF050136	93.8058	94.4316	94.1315	1.6401e-01	1.9004e+00
32	TAF070136	97.0437	97.7718	97.3727	2.0365e-01	1.9005e+00
33	TAF080136	114.6112	115.2263	114.9308	1.5132e-01	1.9014e+00
34	TAF090136	100.4401	101.3737	100.8885	2.5175e-01	1.9006e+00
35	TAF100136	100.4489	101.2812	100.8402	1.7525e-01	1.9006e+00
36	TAF105136	101.1230	102.0539	101.4920	2.6612e-01	1.9007e+00
37	TAF110136	105.4476	106.1707	105.8157	1.4623e-01	1.9009e+00
38	TAF115136	102.9597	103.6846	103.3570	1.7920e-01	1.9007e+00
39	TAF120136	108.6496	109.5767	109.2180	1.6681e-01	1.9010e+00
40	TAF125136	104.3121	105.4448	104.9415	2.8482e-01	1.9008e+00
41	TAF130136	105.0835	105.9109	105.4972	1.6838e-01	1.9008e+00
42	TAF120048	105.1965	106.2368	105.6710	2.3405e-01	1.9009e+00
43	TAF130048	106.4285	107.0490	106.7924	1.7113e-01	1.9009e+00
44	TAF120224	104.4384	105.0601	104.6995	1.5970e-01	1.9008e+00
45	TAF130224	105.3140	105.8344	105.5430	1.6384e-01	1.9009e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0572	2.1694e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2567	1.1589e-01	1.9010e+00
48	TAI130138	114.7927	116.0245	115.4580	3.2676e-01	1.9014e+00
49	TAI130226	113.3087	114.2314	113.8945	1.8983e-01	1.9013e+00
50	TAI130314	115.9239	116.9517	116.4545	3.1158e-01	1.9015e+00
51	TAI130042	113.7292	114.6544	114.2430	2.1275e-01	1.9013e+00
52	TRR130090	93.1133	97.5831	95.8093	1.1190e+00	1.9004e+00
53	TSI000001	46.5201	47.2795	46.8544	2.0400e-01	1.9004e+00
54	TSI000002	107.1272	108.7759	108.0711	3.8434e-01	1.9010e+00
55	TSO000001	46.1091	46.7624	46.5273	1.5615e-01	1.9004e+00
56	TSO000002	52.2828	53.2539	52.7530	2.3752e-01	1.9002e+00
57	TAF020136	87.6855	88.6317	88.1102	2.2698e-01	1.9002e+00
58	TAF120312	104.6620	105.5930	105.0511	2.7105e-01	1.9008e+00
59	TAF130312	108.1038	108.7226	108.3765	1.6098e-01	1.9010e+00
60	EMPTY	1.0596	1.0693	1.0653	2.1364e-03	0.0000e+00
61	EMPTY	1.0742	1.0791	1.0765	2.4583e-03	0.0000e+00
62	EMPTY	1.0840	1.0889	1.0867	2.4484e-03	0.0000e+00
63	EMPTY	1.0986	1.1035	1.0989	1.1714e-03	0.0000e+00
64	EMPTY	0.5957	0.6055	0.6008	1.3811e-03	0.0000e+00
65	EMPTY	0.6201	0.6250	0.6203	9.6655e-04	0.0000e+00
66	EMPTY	0.6348	0.6396	0.6355	1.8082e-03	0.0000e+00
67	EMPTY	0.6494	0.6592	0.6536	1.9754e-03	0.0000e+00
68	EMPTY	0.6641	0.6689	0.6646	1.4797e-03	0.0000e+00
69	EMPTY	0.6787	0.6836	0.6830	1.6028e-03	0.0000e+00
70	EMPTY	0.6934	0.7031	0.6980	1.3811e-03	0.0000e+00
71	EMPTY	0.7178	0.7227	0.7180	9.6655e-04	0.0000e+00
72	EMPTY	0.7275	0.7324	0.7322	9.6655e-04	0.0000e+00
73	EMPTY	0.7471	0.7520	0.7487	2.3365e-03	0.0000e+00
74	EMPTY	0.7617	0.7666	0.7631	2.2146e-03	0.0000e+00
75	EMPTY	0.7764	0.7813	0.7804	1.8950e-03	0.0000e+00
76	EMPTY	0.7910	0.7959	0.7931	2.4344e-03	0.0000e+00
77	EMPTY	0.8105	0.8154	0.8110	1.4797e-03	0.0000e+00
78	EMPTY	0.8301	0.8350	0.8346	1.3381e-03	0.0000e+00
79	EMPTY	0.8496	0.8545	0.8543	9.6655e-04	0.0000e+00
80	PAN020136	60.7594	65.1845	63.4679	1.0130e+00	8.8435e-01
81	PAN050136	116.3093	118.2929	117.1363	5.1960e-01	1.7053e+00
82	PAN070136	84.6777	85.8222	85.2546	3.1368e-01	8.9573e-01
83	PAN080136	39.9342	40.9260	40.4652	2.3976e-01	8.7586e-01
84	PAN090136	38.4230	39.6437	39.1844	3.1532e-01	8.7550e-01
85	PAN100136	39.5702	40.6383	40.1272	2.5245e-01	8.7576e-01
86	PAN105136	19.6098	20.3727	20.0111	1.8355e-01	8.7144e-01
87	PAN110136	22.3579	22.8156	22.6066	1.0987e-01	8.7183e-01
88	PAN115136	18.6385	19.1726	18.9544	1.3170e-01	8.7129e-01
89	PAN120136	16.5448	16.9263	16.7249	9.3453e-02	8.7100e-01
90	PAN125136	21.4438	22.0542	21.7292	1.3684e-01	8.7169e-01
91	PAN130136	20.6559	21.4188	20.9626	1.5451e-01	8.7158e-01
92	PAN120048	45.8146	46.5012	46.1381	1.7133e-01	8.7761e-01
93	PAN130048	36.4833	37.1699	36.8342	1.7164e-01	8.7486e-01
94	PAN120224	35.5091	36.2720	35.8860	1.5900e-01	8.7461e-01
95	PAN130224	41.5598	42.4754	41.8803	2.1190e-01	8.7628e-01
96	PAN120312	41.6009	42.2113	41.9717	1.5414e-01	8.7630e-01
97	PAN130312	41.0022	41.6126	41.2448	1.6217e-01	8.7609e-01
98	PAB000136	39.9942	40.4519	40.2441	1.1522e-01	5.8866e-01
99	PAB100136	26.0976	26.2807	26.1827	5.2324e-02	5.8368e-01
100	PAB125136	22.4908	22.6739	22.5925	4.5580e-02	5.8274e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8474	40.5799	40.0842	1.7335e-01	7.5667e-01
102	PRV000001	15.3654	15.4875	15.4851	1.7263e-02	7.5100e-01
103	PSR000001	19.3163	19.4383	19.4335	2.4164e-02	7.5157e-01
104	PFM000001	102.7187	105.8315	104.3392	7.1952e-01	5.6395e-01
105	PAN000136	506.6476	515.3451	510.5385	1.9991e+00	5.0829e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0067	2.3941e-03	0.0000e+00
108	EMPTY	-7.9443	-7.2070	-7.5355	1.8323e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.5587	103.3166	102.3634	4.1692e-01	1.0165e+00
113	VPW000002	119.3209	120.1022	119.5905	1.9686e-01	1.0821e+00
114	VPW000003	147.1567	148.5239	147.7661	2.6658e-01	1.2009e+00
115	VPW000004	104.5147	106.2725	105.2881	3.6371e-01	1.0272e+00
116	VPW000005	139.2127	141.1659	140.0214	4.0049e-01	1.1670e+00
117	VPW000006	145.9586	147.5211	146.6538	3.5767e-01	1.1960e+00
118	IPW000001	552.3633	566.0297	558.8059	3.0104e+00	9.2249e+00
119	IPW000002	1295.4180	1307.1256	1301.3890	2.7428e+00	1.3088e+01
120	IPW000003	1325.3251	1338.9750	1331.8381	2.9113e+00	1.3278e+01
121	IPW000004	384.1458	390.0052	386.6458	1.3185e+00	3.6510e+00
122	IPW000005	254.6413	258.0590	256.0182	8.0552e-01	2.8444e+00
123	IPW000006	266.9677	269.8974	268.5693	7.3848e-01	2.9158e+00
124	EMPTY	-0.0342	-0.0195	-0.0251	3.8219e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0163	3.0581e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0215	3.1195e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0180	3.4793e-03	0.0000e+00
128	IHT000001	132.2378	134.1909	133.1909	4.7127e-01	4.3109e+00
129	IHT000002	132.6397	134.7882	133.5499	4.6956e-01	4.3120e+00
130	IHT000003	131.1824	133.3308	132.1707	4.9820e-01	4.3078e+00
131	IHT000004	131.8735	134.2172	132.9868	5.4140e-01	4.3103e+00
132	IHT000005	129.4546	131.6031	130.4898	4.9639e-01	4.3026e+00
133	IHT000006	125.5521	127.8959	126.6420	4.6032e-01	4.2911e+00
134	IHT000007	130.0068	132.1552	131.0107	4.6857e-01	4.3042e+00
135	IHT000008	130.2171	132.1702	131.1117	4.1590e-01	4.3045e+00
136	IHT000009	131.2726	133.2257	132.3506	4.2543e-01	4.3083e+00
137	IHT000010	130.1307	132.2792	131.2792	5.9796e-01	4.3050e+00
138	IHT000011	134.3562	137.0906	135.6141	6.2035e-01	4.3185e+00
139	IHT000012	128.2489	130.9833	129.5185	6.2172e-01	4.2997e+00
140	IHT000013	92.0936	94.4373	93.2108	5.8798e-01	4.2046e+00
141	IHT000014	127.8132	130.3523	129.0633	6.0232e-01	4.2983e+00
142	IHT000015	96.0937	98.2422	97.1406	5.7421e-01	4.2135e+00
143	IHT000016	89.2015	91.7405	90.3850	6.1815e-01	4.1984e+00
144	IHT000017	105.2246	108.1543	106.6074	7.0789e-01	4.2363e+00
145	IHT000018	107.8163	110.5507	109.3241	6.9142e-01	4.2433e+00
146	IHT000019	103.7973	106.3364	104.7856	5.7509e-01	4.2318e+00
147	IHT000020	107.3843	109.7281	108.2593	5.7350e-01	4.2405e+00
148	IHT000021	-2.7532	-0.0188	-1.5110	6.3719e-01	4.1000e+00
149	IHT000022	92.9500	95.8797	94.5125	6.2140e-01	4.2075e+00
150	IHT000023	106.2012	108.5449	107.4824	5.4556e-01	4.2385e+00
151	IHT000024	71.5144	73.6629	72.7449	5.3851e-01	4.1640e+00
152	IHT000025	103.5081	105.8519	104.6292	5.3643e-01	4.2314e+00
153	IHT000026	105.4763	107.8200	106.5661	5.5676e-01	4.2362e+00
154	IHT000027	89.8550	92.7847	91.5464	6.6217e-01	4.2010e+00
155	IHT000028	91.9171	95.2374	93.3897	6.7797e-01	4.2050e+00

Test: May08_01

sum1

Date: Tue May 8 10:29:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6415	108.3759	106.7783	6.1598e-01	4.2368e+00
157	IHT000030	107.8275	110.5619	108.9526	6.0818e-01	4.2423e+00
158	IHT000031	106.9674	109.3111	107.9908	6.2085e-01	4.2398e+00
159	IHT000032	107.9665	110.5056	109.1969	6.2046e-01	4.2429e+00
160	IHT000033	107.7749	110.5093	109.1538	6.5246e-01	4.2428e+00
161	IHT000034	94.1632	97.0929	95.5459	5.8639e-01	4.2099e+00
162	IHT000035	124.1850	127.1146	125.7085	5.9712e-01	4.2884e+00
163	IHT000036	92.9725	95.1209	93.9998	5.3352e-01	4.2064e+00

Velocity 1 = 26.0467 (ft/sec) (+/- 1.6887 %)
Velocity 2 = 13.4142 (ft/sec) (+/- 1.7033 %)
Pressure drop = 18.5379 (psi)
Tsat in = 267.6989 (deg F) Tsat out = 234.0328 (deg F)
Phi inner = 102.1107 (kBtu/hr-ft2) (+/- 1.4088 %)
Phi outer = 101.2932 (kBtu/hr-ft2) (+/- 1.6189 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	70.8686	71.5087	71.1076	1.8104e-01	1.9000e+00
1	TRF000002	71.0830	71.5074	71.3673	1.2581e-01	1.9000e+00
2	TFM000001	85.6878	86.7363	86.2858	2.1329e-01	1.9002e+00
3	TIN000001	85.8678	86.4991	86.2108	1.4998e-01	1.9002e+00
4	TRV000001	85.9033	86.7416	86.3750	2.0870e-01	1.9002e+00
5	TSR000001	105.3042	107.6703	106.5210	5.4026e-01	1.9009e+00
6	TAO020136	109.5826	110.8213	110.2702	2.7552e-01	1.9011e+00
7	TAO050136	107.2794	108.0003	107.6883	1.6052e-01	1.9010e+00
8	TAO070136	110.4472	111.3766	110.9534	2.1194e-01	1.9011e+00
9	TAC080136	114.6917	115.5110	115.0051	1.6743e-01	1.9014e+00
10	TAO090136	115.5067	116.4288	115.9966	2.0097e-01	1.9014e+00
11	TAO100136	112.3293	113.1516	112.8124	1.5724e-01	1.9012e+00
12	TAO105136	114.0941	115.1224	114.5857	2.3344e-01	1.9013e+00
13	TAO110136	115.9262	116.6425	116.2151	1.7831e-01	1.9014e+00
14	TAO115136	113.9289	114.8551	114.3837	2.2124e-01	1.9013e+00
15	TAO120136	118.6014	119.2144	118.9540	1.4623e-01	1.9016e+00
16	TAO125136	114.8540	115.6750	115.2541	1.7000e-01	1.9014e+00
17	TAO130136	114.4760	115.2911	114.9227	1.5958e-01	1.9014e+00
18	TAO120048	119.4039	120.0181	119.7701	1.6413e-01	1.9017e+00
19	TAO130048	116.6939	117.3082	117.0808	1.5238e-01	1.9015e+00
20	TAO120224	118.1316	118.7466	118.4205	1.6122e-01	1.9016e+00
21	TAO130224	113.7892	114.4039	114.1560	1.6427e-01	1.9013e+00
22	TAO120312	117.7897	118.7114	118.3162	2.0391e-01	1.9016e+00
23	TAO130312	118.3799	119.1977	118.8318	1.4495e-01	1.9016e+00
24	TRT020000	108.6028	109.3271	109.0186	1.8150e-01	1.9010e+00
25	TRT070000	112.5063	113.0223	112.8182	1.3428e-01	1.9012e+00
26	TRT100000	120.2166	121.2365	120.7902	2.1623e-01	1.9017e+00
27	TRT120000	118.7929	119.6111	119.1837	1.9024e-01	1.9016e+00
28	TRT125000	121.3358	122.2508	121.7123	2.0270e-01	1.9018e+00
29	TRT130000	119.8292	120.6460	120.3377	1.6704e-01	1.9017e+00
30	EMPTY	39.1464	39.8352	39.5368	1.9263e-01	1.9011e+00
31	TAF050136	93.3896	94.0156	93.7423	1.6033e-01	1.9004e+00
32	TAF070136	96.5264	97.4605	96.9853	2.1703e-01	1.9005e+00
33	TAF080136	114.0001	114.8192	114.4723	1.8481e-01	1.9013e+00
34	TAF090136	100.9588	101.9950	101.4996	2.5673e-01	1.9007e+00
35	TAF100136	99.9292	100.8652	100.3971	1.8940e-01	1.9006e+00
36	TAF105136	100.5055	101.5384	101.0368	2.2921e-01	1.9006e+00
37	TAF110136	104.9325	105.7593	105.4136	1.6771e-01	1.9008e+00
38	TAF115136	102.5453	103.2710	102.9452	1.6613e-01	1.9007e+00
39	TAF120136	108.4441	109.0625	108.7514	1.5519e-01	1.9010e+00
40	TAF125136	103.6937	104.9302	104.4131	2.6106e-01	1.9008e+00
41	TAF130136	104.6706	105.3944	105.0367	1.6218e-01	1.9008e+00
42	TAF120048	104.7810	105.7157	105.2441	1.9738e-01	1.9008e+00
43	TAF130048	105.9125	106.6364	106.3445	1.4872e-01	1.9009e+00
44	TAF120224	103.7137	104.6460	104.2336	1.9126e-01	1.9008e+00
45	TAF130224	104.6912	105.5216	105.0916	1.7678e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0618	2.2297e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2108	1.0415e-01	1.9010e+00
48	TAI130138	114.3820	115.6140	115.0043	2.8242e-01	1.9014e+00
49	TAI130226	112.8982	113.8212	113.5238	1.7737e-01	1.9013e+00
50	TAI130314	115.5130	116.6434	116.0743	2.9229e-01	1.9014e+00
51	TAI130042	113.2149	114.1404	113.7765	2.2776e-01	1.9013e+00
52	TRR130090	107.7116	110.0756	109.0010	5.4504e-01	1.9010e+00
53	TSI000001	46.3036	47.1707	46.8131	1.7686e-01	1.9004e+00
54	TSI000002	108.5681	110.1115	109.5128	3.3675e-01	1.9011e+00
55	TSO000001	45.8910	46.8712	46.4467	2.0312e-01	1.9004e+00
56	TSO000002	52.1744	53.0374	52.6127	1.9915e-01	1.9002e+00
57	TAF020136	87.2637	88.1058	87.7202	1.6285e-01	1.9002e+00
58	TAF120312	104.0421	105.0763	104.5903	2.5517e-01	1.9008e+00
59	TAF130312	107.4863	108.3112	107.9545	1.7705e-01	1.9010e+00
60	EMPTY	1.0547	1.0596	1.0556	1.8950e-03	0.0000e+00
61	EMPTY	1.0645	1.0693	1.0664	2.4164e-03	0.0000e+00
62	EMPTY	1.0742	1.0791	1.0769	2.4583e-03	0.0000e+00
63	EMPTY	1.0889	1.0938	1.0892	1.1714e-03	0.0000e+00
64	EMPTY	0.5957	0.6006	0.5967	1.9730e-03	0.0000e+00
65	EMPTY	0.6152	0.6201	0.6159	1.7115e-03	0.0000e+00
66	EMPTY	0.6299	0.6348	0.6312	2.1635e-03	0.0000e+00
67	EMPTY	0.6494	0.6494	0.6494	0.0000e+00	0.0000e+00
68	EMPTY	0.6592	0.6641	0.6601	1.8950e-03	0.0000e+00
69	EMPTY	0.6738	0.6787	0.6784	1.1714e-03	0.0000e+00
70	EMPTY	0.6934	0.6982	0.6935	6.9053e-04	0.0000e+00
71	EMPTY	0.7129	0.7178	0.7139	1.9730e-03	0.0000e+00
72	EMPTY	0.7275	0.7275	0.7275	0.0000e+00	0.0000e+00
73	EMPTY	0.7422	0.7471	0.7464	1.7115e-03	0.0000e+00
74	EMPTY	0.7568	0.7617	0.7604	2.1635e-03	0.0000e+00
75	EMPTY	0.7764	0.7764	0.7764	0.0000e+00	0.0000e+00
76	EMPTY	0.7861	0.7910	0.7901	1.8950e-03	0.0000e+00
77	EMPTY	0.8057	0.8105	0.8074	2.3675e-03	0.0000e+00
78	EMPTY	0.8252	0.8301	0.8300	6.9053e-04	0.0000e+00
79	EMPTY	0.8496	0.8496	0.8496	0.0000e+00	0.0000e+00
80	PAN020136	61.7513	65.5660	63.7410	8.8677e-01	8.8447e-01
81	PAN050136	116.4619	118.9033	117.5818	5.9106e-01	1.7055e+00
82	PAN070136	85.6696	87.3480	86.4966	3.4924e-01	8.9647e-01
83	PAN080136	39.3239	40.8498	39.9342	3.5384e-01	8.7571e-01
84	PAN090136	38.8044	40.0251	39.4957	2.9058e-01	8.7559e-01
85	PAN100136	39.4939	40.3332	39.9013	2.1280e-01	8.7570e-01
86	PAN105136	20.4490	20.9831	20.6565	1.2620e-01	8.7153e-01
87	PAN110136	22.5105	22.8919	22.7027	1.0594e-01	8.7185e-01
88	PAN115136	18.7148	19.2489	19.0093	1.3350e-01	8.7130e-01
89	PAN120136	16.6211	17.1552	16.8546	1.1679e-01	8.7102e-01
90	PAN125136	21.5964	22.0542	21.8558	1.2522e-01	8.7171e-01
91	PAN130136	20.6559	21.1899	20.9351	1.0965e-01	8.7157e-01
92	PAN120048	45.4331	46.3487	45.8360	2.1136e-01	8.7751e-01
93	PAN130048	36.7122	37.4751	37.0341	1.7661e-01	8.7491e-01
94	PAN120224	35.7380	36.5772	36.0874	1.8946e-01	8.7467e-01
95	PAN130224	41.7124	42.3991	42.0634	1.6166e-01	8.7633e-01
96	PAN120312	41.8298	42.6690	42.2418	1.7370e-01	8.7639e-01
97	PAN130312	41.0785	41.8415	41.4691	1.7482e-01	8.7616e-01
98	PAB000136	39.9942	40.4319	40.2221	1.0360e-01	5.8865e-01
99	PAB100136	26.0518	26.2349	26.1168	4.6324e-02	5.8366e-01
100	PAB125136	22.3993	22.5366	22.4680	4.6472e-02	5.8271e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0916	40.5799	40.2649	1.4399e-01	7.5673e-01
102	PRV000001	15.4875	15.4875	15.4875	9.6336e-07	7.5100e-01
103	PSR000001	19.1942	19.3163	19.2845	5.4088e-02	7.5155e-01
104	PFM000001	103.0849	105.9230	104.6578	6.8053e-01	5.6432e-01
105	PAN000136	509.8520	517.1761	513.2301	2.1026e+00	5.0846e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0072	2.4642e-03	0.0000e+00
108	EMPTY	-7.9346	-7.1875	-7.5354	1.9556e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0065	2.3365e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.7541	102.7306	102.1877	2.2072e-01	1.0159e+00
113	VPW000002	119.1256	119.7116	119.4381	1.3087e-01	1.0815e+00
114	VPW000003	147.3520	147.9380	147.6802	1.2750e-01	1.2005e+00
115	VPW000004	104.7100	105.2960	105.0108	1.3788e-01	1.0262e+00
116	VPW000005	139.4081	139.9940	139.6815	1.2478e-01	1.1655e+00
117	VPW000006	146.1539	146.9351	146.5366	1.6250e-01	1.1955e+00
118	IPW000001	540.6492	550.4109	547.0140	2.6107e+00	9.1807e+00
119	IPW000002	1305.1743	1312.9794	1310.0913	1.8591e+00	1.3143e+01
120	IPW000003	1335.0751	1340.9250	1338.7415	1.5074e+00	1.3322e+01
121	IPW000004	381.7044	383.1693	382.4564	3.3029e-01	3.6234e+00
122	IPW000005	255.1296	256.1060	255.4812	3.2774e-01	2.8414e+00
123	IPW000006	267.9443	269.8974	269.0283	4.8618e-01	2.9184e+00
124	EMPTY	-0.0293	-0.0146	-0.0223	3.7121e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	2.8608e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0185	3.0067e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0184	3.3540e-03	0.0000e+00
128	IHT000001	132.4331	133.9956	133.2222	5.0680e-01	4.3110e+00
129	IHT000002	132.6397	134.5929	133.5030	4.7856e-01	4.3119e+00
130	IHT000003	131.3777	133.3308	132.1903	4.7081e-01	4.3078e+00
131	IHT000004	132.0688	134.4126	132.9477	5.0417e-01	4.3102e+00
132	IHT000005	129.6499	131.7984	130.4859	4.9133e-01	4.3026e+00
133	IHT000006	125.5521	127.7006	126.5951	4.5951e-01	4.2910e+00
134	IHT000007	129.8114	132.1552	130.9990	5.3792e-01	4.3042e+00
135	IHT000008	130.0218	132.3655	131.0726	5.2629e-01	4.3044e+00
136	IHT000009	131.0772	133.4210	132.2764	5.4678e-01	4.3081e+00
137	IHT000010	130.1307	132.6698	131.3612	5.6531e-01	4.3053e+00
138	IHT000011	134.5515	136.7000	135.6414	5.0546e-01	4.3185e+00
139	IHT000012	128.4442	130.7880	129.5263	5.2082e-01	4.2997e+00
140	IHT000013	92.0936	94.0467	92.9881	4.7366e-01	4.2041e+00
141	IHT000014	128.0086	129.7664	128.9227	4.6762e-01	4.2979e+00
142	IHT000015	96.0937	97.8516	96.9141	4.1385e-01	4.2130e+00
143	IHT000016	89.3968	91.5452	90.2835	4.3263e-01	4.1982e+00
144	IHT000017	106.5918	109.1308	107.7363	6.2516e-01	4.2392e+00
145	IHT000018	108.2069	110.5507	109.3671	5.8048e-01	4.2434e+00
146	IHT000019	103.9926	106.1411	104.8559	5.2213e-01	4.2320e+00
147	IHT000020	107.3843	109.5328	108.2554	5.0718e-01	4.2405e+00
148	IHT000021	-2.3625	-0.0188	-1.3274	6.4144e-01	4.1000e+00
149	IHT000022	93.7312	95.6844	94.4734	5.4534e-01	4.2074e+00
150	IHT000023	106.5918	108.7402	107.4590	5.5686e-01	4.2385e+00
151	IHT000024	71.9050	73.8582	72.6902	5.4030e-01	4.1639e+00
152	IHT000025	103.7034	105.8519	104.5746	5.1177e-01	4.2313e+00
153	IHT000026	105.6716	107.6247	106.5466	4.7881e-01	4.2362e+00
154	IHT000027	90.6363	92.5894	91.4058	4.2022e-01	4.2007e+00
155	IHT000028	92.5030	94.6514	93.4092	5.8229e-01	4.2051e+00

Test: May08_01

sum2

Date: Tue May 8 10:29:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8369	107.7900	106.8486	5.3915e-01	4.2369e+00
157	IHT000030	108.0228	109.9760	109.0112	4.8714e-01	4.2424e+00
158	IHT000031	106.9674	108.9205	107.9830	5.1448e-01	4.2398e+00
159	IHT000032	108.1618	110.1149	109.2087	5.0803e-01	4.2430e+00
160	IHT000033	108.1656	110.1187	109.1812	5.2645e-01	4.2429e+00
161	IHT000034	94.5538	96.3116	95.3780	4.5556e-01	4.2095e+00
162	IHT000035	124.5756	126.7240	125.5717	5.1637e-01	4.2880e+00
163	IHT000036	92.7772	94.7303	93.7733	4.5890e-01	4.2059e+00

Velocity 1 = 0.038700 (ft/sec)
 Velocity 2 = 0.000500 (ft/sec)
 Pressure Drop = 0.097200 (psi)
 Tsat in = 0.032501 (deg F) Tsat out = 0.305099 (deg F)
 Phi inner = 0.405106 (kBtu/hr-ft2) Phi outer = 0.411606 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0555	0.0780
1	TRF000002	0.0170	0.0238
2	TFM000001	0.4130	0.4764
3	TIN000001	0.3892	0.4494
4	TRV000001	0.4160	0.4793
5	TSR000001	1.3173	1.2216
6	TAO020136	0.3942	0.3562
7	TAO050136	0.4826	0.4461
8	TAO070136	0.3658	0.3308
9	TAO080136	0.4957	0.4292
10	TAO090136	0.5096	0.4374
11	TAO100136	0.4743	0.4187
12	TAO105136	0.4379	0.3807
13	TAO110136	0.4732	0.4055
14	TAO115136	0.5376	0.4678
15	TAO120136	0.5012	0.4196
16	TAO125136	0.5345	0.4616
17	TAO130136	0.5037	0.4364
18	TAO120048	0.5452	0.4531
19	TAO130048	0.5245	0.4460
20	TAO120224	0.4891	0.4113
21	TAO130224	0.4217	0.3680
22	TAO120312	0.5459	0.4601
23	TAO130312	0.4797	0.4021
24	TRT020000	0.5482	0.5003
25	TRT070000	0.5153	0.4547
26	TRT100000	0.4872	0.4017
27	TRT120000	0.5210	0.4352
28	TRT125000	0.6144	0.5023
29	TRT130000	0.4585	0.3796
30	EMPTY	0.0091	0.0230
31	TAF050136	0.3892	0.4135
32	TAF070136	0.3874	0.3979
33	TAF080136	0.4585	0.3989
34	TAF090136	0.6111	0.6057
35	TAF100136	0.4431	0.4394
36	TAF105136	0.4552	0.4485
37	TAF110136	0.4021	0.3800
38	TAF115136	0.4118	0.3984
39	TAF120136	0.4666	0.4272
40	TAF125136	0.5284	0.5035
41	TAF130136	0.4605	0.4365
42	TAF120048	0.4269	0.4040
43	TAF130048	0.4479	0.4194
44	TAF120224	0.4659	0.4450
45	TAF130224	0.4514	0.4277

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0459	0.1169
48	TAI130138	0.4537	0.3930
49	TAI130226	0.3707	0.3255
50	TAI130314	0.3802	0.3265
51	TAI130042	0.4665	0.4083
52	TRR130090	13.1917	13.7687
53	TSI000001	0.0413	0.0881
54	TSI000002	1.4417	1.3340
55	TSO000001	0.0806	0.1732
56	TSO000002	0.1403	0.2660
57	TAF020136	0.3900	0.4426
58	TAF120312	0.4608	0.4386
59	TAF130312	0.4220	0.3894
60	EMPTY	0.0097	0.9105
61	EMPTY	0.0101	0.9382
62	EMPTY	0.0098	0.9018
63	EMPTY	0.0097	0.8827
64	EMPTY	0.0041	0.6824
65	EMPTY	0.0044	0.7093
66	EMPTY	0.0043	0.6766
67	EMPTY	0.0042	0.6426
68	EMPTY	0.0045	0.6771
69	EMPTY	0.0046	0.6735
70	EMPTY	0.0045	0.6447
71	EMPTY	0.0041	0.5710
72	EMPTY	0.0047	0.6419
73	EMPTY	0.0023	0.3072
74	EMPTY	0.0027	0.3538
75	EMPTY	0.0040	0.5126
76	EMPTY	0.0030	0.3783
77	EMPTY	0.0036	0.4439
78	EMPTY	0.0046	0.5512
79	EMPTY	0.0047	0.5502
80	PAN020136	0.2731	0.4303
81	PAN050136	0.4455	0.3803
82	PAN070136	1.2420	1.4568
83	PAN080136	0.5310	1.3122
84	PAN090136	0.3113	0.7945
85	PAN100136	0.2259	0.5630
86	PAN105136	0.6454	3.2252
87	PAN110136	0.0961	0.4251
88	PAN115136	0.0549	0.2896
89	PAN120136	0.1297	0.7755
90	PAN125136	0.1266	0.5826
91	PAN130136	0.0275	0.1312
92	PAN120048	0.3021	0.6548
93	PAN130048	0.1999	0.5427
94	PAN120224	0.2014	0.5612
95	PAN130224	0.1831	0.4372
96	PAN120312	0.2701	0.6435
97	PAN130312	0.2243	0.5438
98	PAB000136	0.0220	0.0547
99	PAB100136	0.0659	0.2517
100	PAB125136	0.1245	0.5511

Test: May08_01

dif

Date: Tue May 8 10:29:03 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1807	0.4508
102	PRV000001	0.0024	0.0155
103	PSR000001	0.1490	0.7667
104	PFM000001	0.3186	0.3053
105	PAN000136	2.6916	0.5272
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	7.4627
108	EMPTY	0.0001	0.0013
109	EMPTY	0.0006	10.1695
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1757	0.1716
113	VPW000002	0.1524	0.1274
114	VPW000003	0.0859	0.0581
115	VPW000004	0.2773	0.2634
116	VPW000005	0.3399	0.2427
117	VPW000006	0.1172	0.0799
118	IPW000001	11.7919	2.1102
119	IPW000002	8.7023	0.6687
120	IPW000003	6.9033	0.5183
121	IPW000004	4.1894	1.0835
122	IPW000005	0.5370	0.2097
123	IPW000006	0.4590	0.1709
124	EMPTY	0.0028	11.1554
125	EMPTY	0.0014	8.5890
126	EMPTY	0.0030	13.9535
127	EMPTY	0.0004	2.2222
128	IHT000001	0.0313	0.0235
129	IHT000002	0.0469	0.0351
130	IHT000003	0.0196	0.0148
131	IHT000004	0.0391	0.0294
132	IHT000005	0.0039	0.0030
133	IHT000006	0.0469	0.0370
134	IHT000007	0.0117	0.0089
135	IHT000008	0.0391	0.0298
136	IHT000009	0.0742	0.0561
137	IHT000010	0.0820	0.0625
138	IHT000011	0.0273	0.0201
139	IHT000012	0.0078	0.0060
140	IHT000013	0.2227	0.2389
141	IHT000014	0.1406	0.1089
142	IHT000015	0.2265	0.2332
143	IHT000016	0.1015	0.1123
144	IHT000017	1.1289	1.0589
145	IHT000018	0.0430	0.0393
146	IHT000019	0.0703	0.0671
147	IHT000020	0.0039	0.0036
148	IHT000021	0.1836	12.1509
149	IHT000022	0.0391	0.0414
150	IHT000023	0.0234	0.0218
151	IHT000024	0.0547	0.0752
152	IHT000025	0.0546	0.0522
153	IHT000026	0.0195	0.0183
154	IHT000027	0.1406	0.1536
155	IHT000028	0.0195	0.0209

Test: May08_01 dif Date: Tue May 8 10:29:03 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0703	0.0658
157	IHT000030	0.0586	0.0538
158	IHT000031	0.0078	0.0072
159	IHT000032	0.0118	0.0108
160	IHT000033	0.0274	0.0251
161	IHT000034	0.1679	0.1757
162	IHT000035	0.1368	0.1088
163	IHT000036	0.2265	0.2410

Velocity 1 = 19.9805 (ft/sec) (+/- 1.7205 %)
Velocity 2 = 13.4148 (ft/sec) (+/- 1.7033 %)
Pressure drop = 9.2062 (psi)
Tsat in = 267.3409 (deg F) Tsat out = 252.7454 (deg F)
Phi inner = 100.7076 (kBtu/hr-ft2) (+/- 1.4126 %)
Phi outer = 101.5178 (kBtu/hr-ft2) (+/- 1.6170 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	70.8686	71.5087	71.1716	1.8333e-01	1.9000e+00
1	TRF000002	71.2952	71.7196	71.4649	1.2126e-01	1.9000e+00
2	TFM000001	86.2124	87.2605	86.7973	1.9531e-01	1.9002e+00
3	TIN000001	86.4988	86.9197	86.7029	1.3990e-01	1.9002e+00
4	TRV000001	86.4261	87.0558	86.7724	1.6835e-01	1.9002e+00
5	TSR000001	107.2577	108.6962	108.0664	3.3124e-01	1.9010e+00
6	TAO020136	115.9685	116.7905	116.3939	2.1469e-01	1.9014e+00
7	TAO050136	113.4250	114.3466	113.8492	1.7685e-01	1.9013e+00
8	TAO070136	116.5302	117.6612	117.1699	2.3150e-01	1.9015e+00
9	TAO080136	122.5228	123.2348	122.8986	1.4723e-01	1.9019e+00
10	TAO090136	123.6693	124.5856	124.1278	2.0283e-01	1.9020e+00
11	TAO100136	120.1107	120.8266	120.4932	1.7495e-01	1.9017e+00
12	TAO105136	122.0897	123.1117	122.5414	2.1363e-01	1.9019e+00
13	TAO110136	124.3245	124.9346	124.6237	1.4119e-01	1.9020e+00
14	TAO115136	122.3512	123.2719	122.7869	2.2992e-01	1.9019e+00
15	TAO120136	127.6985	128.3073	127.9769	1.3244e-01	1.9023e+00
16	TAO125136	123.6329	124.2444	123.9206	1.6297e-01	1.9020e+00
17	TAO130136	123.0400	123.6495	123.3751	1.5760e-01	1.9019e+00
18	TAO120048	128.9684	129.4762	129.2266	1.3015e-01	1.9024e+00
19	TAO130048	125.9469	126.5574	126.2381	1.3774e-01	1.9021e+00
20	TAO120224	127.3097	128.0216	127.6130	1.9213e-01	1.9022e+00
21	TAO130224	122.2115	122.8228	122.4708	1.4563e-01	1.9019e+00
22	TAO120312	127.3847	127.9954	127.7289	1.5087e-01	1.9022e+00
23	TAO130312	127.6347	128.2447	128.0511	1.2854e-01	1.9023e+00
24	TRT020000	114.6946	115.5184	115.2236	1.8245e-01	1.9014e+00
25	TRT070000	119.7334	120.5549	120.1996	1.6357e-01	1.9017e+00
26	TRT100000	129.2590	130.1712	129.6668	1.9588e-01	1.9024e+00
27	TRT120000	128.6673	129.2766	128.9620	1.3179e-01	1.9023e+00
28	TRT125000	131.4358	132.3438	132.0071	1.8082e-01	1.9026e+00
29	TRT130000	129.4750	129.9823	129.7492	1.3483e-01	1.9024e+00
30	EMPTY	39.1464	40.0646	39.5322	2.3849e-01	1.9011e+00
31	TAF050136	95.9886	96.7168	96.3407	1.7577e-01	1.9005e+00
32	TAF070136	100.0426	101.0782	100.4222	1.9905e-01	1.9006e+00
33	TAF080136	121.9217	122.5334	122.1973	1.4718e-01	1.9018e+00
34	TAF090136	105.4057	106.2330	105.7966	2.0267e-01	1.9009e+00
35	TAF100136	104.6034	105.5356	105.1568	1.9484e-01	1.9008e+00
36	TAF105136	105.6444	106.5700	106.0658	2.4137e-01	1.9009e+00
37	TAF110136	111.4106	111.9255	111.6023	1.3934e-01	1.9012e+00
38	TAF115136	108.0176	108.6372	108.2717	1.6169e-01	1.9010e+00
39	TAF120136	115.6174	116.1305	115.8861	1.4031e-01	1.9014e+00
40	TAF125136	109.7460	110.7711	110.4212	2.1993e-01	1.9011e+00
41	TAF130136	110.8509	111.5712	111.2648	1.6304e-01	1.9011e+00
42	TAF120048	110.7077	111.7427	111.3599	2.2249e-01	1.9012e+00
43	TAF130048	112.6045	113.2219	112.9563	1.5416e-01	1.9012e+00
44	TAF120224	109.8106	110.6352	110.2328	2.0113e-01	1.9011e+00
45	TAF130224	111.0241	111.8508	111.4352	1.9974e-01	1.9012e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	2.0675e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2659	1.2483e-01	1.9010e+00
48	TAI130138	123.2863	124.3062	123.7904	2.5511e-01	1.9019e+00
49	TAI130226	121.7756	122.4889	122.1245	1.7343e-01	1.9018e+00
50	TAI130314	124.4279	125.6525	125.0137	3.0012e-01	1.9020e+00
51	TAI130042	121.8234	122.9469	122.5446	2.0576e-01	1.9019e+00
52	TRR130090	106.6805	111.0019	108.4702	1.1190e+00	1.9010e+00
53	TSI000001	46.4120	47.2790	46.7484	1.7416e-01	1.9004e+00
54	TSI000002	108.2604	110.0094	109.3690	4.3988e-01	1.9010e+00
55	TSO000001	45.8910	46.8712	46.3853	2.0897e-01	1.9004e+00
56	TSO000002	52.8213	53.4694	53.0915	1.9155e-01	1.9002e+00
57	TAF020136	88.6326	89.2652	88.9593	1.8188e-01	1.9002e+00
58	TAF120312	110.2283	111.2574	110.7576	3.0472e-01	1.9011e+00
59	TAF130312	114.9786	115.4917	115.2273	1.4514e-01	1.9014e+00
60	EMPTY	1.2207	1.2305	1.2257	1.8429e-03	0.0000e+00
61	EMPTY	1.2305	1.2402	1.2354	9.8648e-04	0.0000e+00
62	EMPTY	1.2402	1.2451	1.2446	1.4797e-03	0.0000e+00
63	EMPTY	1.2549	1.2598	1.2554	1.4797e-03	0.0000e+00
64	EMPTY	0.6689	0.6689	0.6689	0.0000e+00	0.0000e+00
65	EMPTY	0.6836	0.6885	0.6884	6.9053e-04	0.0000e+00
66	EMPTY	0.6982	0.7031	0.7023	1.8082e-03	0.0000e+00
67	EMPTY	0.7178	0.7227	0.7180	9.6655e-04	0.0000e+00
68	EMPTY	0.7275	0.7324	0.7306	2.3941e-03	0.0000e+00
69	EMPTY	0.7471	0.7471	0.7471	0.0000e+00	0.0000e+00
70	EMPTY	0.7568	0.7617	0.7615	9.6655e-04	0.0000e+00
71	EMPTY	0.7813	0.7861	0.7827	2.2603e-03	0.0000e+00
72	EMPTY	0.7959	0.7959	0.7959	0.0000e+00	0.0000e+00
73	EMPTY	0.8105	0.8154	0.8140	2.2603e-03	0.0000e+00
74	EMPTY	0.8252	0.8301	0.8259	1.7115e-03	0.0000e+00
75	EMPTY	0.8398	0.8447	0.8442	1.4797e-03	0.0000e+00
76	EMPTY	0.8545	0.8594	0.8554	1.8950e-03	0.0000e+00
77	EMPTY	0.8740	0.8740	0.8740	0.0000e+00	0.0000e+00
78	EMPTY	0.8936	0.8984	0.8941	1.6028e-03	0.0000e+00
79	EMPTY	0.9131	0.9180	0.9176	1.3381e-03	0.0000e+00
80	PAN020136	29.9367	32.4544	31.0490	6.0588e-01	8.7346e-01
81	PAN050136	56.9526	58.4785	57.7461	3.4189e-01	1.6862e+00
82	PAN070136	43.4027	44.3946	43.8529	2.0579e-01	8.7688e-01
83	PAN080136	18.2667	18.8771	18.5841	1.4813e-01	8.7124e-01
84	PAN090136	18.1288	18.5865	18.3546	1.2518e-01	8.7121e-01
85	PAN100136	19.9627	20.4967	20.2740	1.3334e-01	8.7148e-01
86	PAN105136	9.1575	9.6153	9.3574	1.0667e-01	8.7031e-01
87	PAN110136	11.3715	11.8293	11.6035	9.8648e-02	8.7048e-01
88	PAN115136	10.7803	11.3143	11.1144	1.1728e-01	8.7044e-01
89	PAN120136	5.3296	7.6185	7.3713	3.6494e-01	8.7020e-01
90	PAN125136	11.2204	13.6618	11.4692	3.3551e-01	8.7047e-01
91	PAN130136	10.9665	11.6532	11.3053	1.3451e-01	8.7046e-01
92	PAN120048	23.8419	24.4523	24.1929	1.3437e-01	8.7210e-01
93	PAN130048	18.1727	18.8594	18.5054	1.1613e-01	8.7123e-01
94	PAN120224	18.8007	19.3348	19.0357	1.2507e-01	8.7130e-01
95	PAN130224	21.7997	22.3338	22.1247	1.2786e-01	8.7176e-01
96	PAN120312	21.6119	22.7563	21.9720	2.1136e-01	8.7173e-01
97	PAN130312	21.4710	22.4628	21.7701	1.5631e-01	8.7170e-01
98	PAB000136	39.8111	40.2231	39.9813	8.0113e-02	5.8855e-01
99	PAB100136	32.9183	33.1014	33.0116	4.3339e-02	5.8584e-01
100	PAB125136	31.1426	31.2799	31.2085	4.0481e-02	5.8522e-01

Test: May08_02

sum1

Date: Tue May 8 10:46:11 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3592	40.0916	39.7864	1.2874e-01	7.5657e-01
102	PRV000001	15.2434	15.3654	15.2849	5.8413e-02	7.5097e-01
103	PSR000001	29.2039	29.3260	29.2943	5.4088e-02	7.5357e-01
104	PFM000001	60.3297	62.5270	61.4449	4.7363e-01	5.2306e-01
105	PAN000136	250.7577	259.4552	254.8776	1.9311e+00	4.9611e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
108	EMPTY	-8.0273	-7.3389	-7.6175	1.5787e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0058	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9494	102.7306	102.3712	1.9071e-01	1.0166e+00
113	VPW000002	119.3209	119.7116	119.5084	1.1811e-01	1.0818e+00
114	VPW000003	147.3520	147.7426	147.6098	1.1464e-01	1.2002e+00
115	VPW000004	104.9053	105.2960	105.1280	1.4233e-01	1.0266e+00
116	VPW000005	139.6034	140.1893	139.8456	1.3984e-01	1.1663e+00
117	VPW000006	146.1539	146.7398	146.4859	1.2001e-01	1.1952e+00
118	IPW000001	562.1250	569.9343	566.0687	1.7854e+00	9.2525e+00
119	IPW000002	1289.5642	1295.4180	1293.0371	1.4902e+00	1.3037e+01
120	IPW000003	1317.5250	1321.4250	1318.9290	1.2483e+00	1.3198e+01
121	IPW000004	386.5872	387.5638	386.9193	2.8659e-01	3.6528e+00
122	IPW000005	254.6413	256.1060	255.3249	3.2714e-01	2.8405e+00
123	IPW000006	266.9677	267.9443	267.4853	3.1828e-01	2.9095e+00
124	EMPTY	-0.0293	-0.0098	-0.0204	4.1491e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	3.2057e-03	0.0000e+00
127	EMPTY	-0.0293	-0.0098	-0.0183	3.7963e-03	0.0000e+00
128	IHT000001	132.2378	134.3863	133.2847	5.0649e-01	4.3112e+00
129	IHT000002	132.4444	134.5929	133.6319	5.0815e-01	4.3123e+00
130	IHT000003	131.5730	133.3308	132.4403	5.0403e-01	4.3086e+00
131	IHT000004	132.0688	134.4126	133.1431	5.1938e-01	4.3108e+00
132	IHT000005	129.6499	131.6031	130.6421	4.8623e-01	4.3031e+00
133	IHT000006	125.9427	128.0912	126.8842	5.0639e-01	4.2918e+00
134	IHT000007	130.2021	132.3505	131.2216	5.1492e-01	4.3049e+00
135	IHT000008	130.2171	132.5608	131.2718	4.8327e-01	4.3050e+00
136	IHT000009	131.2726	133.4210	132.4522	5.0526e-01	4.3086e+00
137	IHT000010	130.1307	133.0604	131.3846	5.6094e-01	4.3054e+00
138	IHT000011	134.5515	137.2859	135.6102	5.2953e-01	4.3184e+00
139	IHT000012	128.4442	130.9833	129.4560	5.1553e-01	4.2995e+00
140	IHT000013	92.0936	95.2186	93.1522	5.6233e-01	4.2045e+00
141	IHT000014	128.2039	130.3523	129.1102	4.9404e-01	4.2985e+00
142	IHT000015	96.2891	98.2422	97.0508	4.8688e-01	4.2133e+00
143	IHT000016	89.3968	91.3499	90.3655	4.6515e-01	4.1984e+00
144	IHT000017	106.7871	108.9355	107.7246	4.9756e-01	4.2392e+00
145	IHT000018	108.4022	110.3553	109.3085	4.4949e-01	4.2432e+00
146	IHT000019	103.9926	106.1411	104.7309	4.2552e-01	4.2316e+00
147	IHT000020	107.1890	109.1421	108.0210	3.8624e-01	4.2399e+00
148	IHT000021	-2.5579	-0.0188	-1.4758	4.9159e-01	4.1000e+00
149	IHT000022	93.1453	95.4890	94.3758	4.5549e-01	4.2072e+00
150	IHT000023	106.3965	107.9590	107.2793	4.1242e-01	4.2380e+00
151	IHT000024	71.7097	73.2722	72.4832	3.9055e-01	4.1636e+00
152	IHT000025	103.7034	105.2659	104.4769	4.0809e-01	4.2310e+00
153	IHT000026	105.6716	107.4294	106.4841	3.9134e-01	4.2360e+00
154	IHT000027	90.6363	92.1988	91.4058	3.8945e-01	4.2007e+00
155	IHT000028	92.1124	94.8467	93.3467	5.9115e-01	4.2049e+00

Test: May08_02

sum1

Date: Tue May 8 10:46:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6415	108.1806	106.7510	5.6420e-01	4.2367e+00
157	IHT000030	107.8275	110.1713	108.8315	5.4535e-01	4.2420e+00
158	IHT000031	106.7721	109.1158	107.7955	5.3751e-01	4.2393e+00
159	IHT000032	107.9665	110.3102	109.0719	5.4621e-01	4.2426e+00
160	IHT000033	107.9703	110.3140	109.0288	5.4546e-01	4.2425e+00
161	IHT000034	94.3585	96.7022	95.2881	4.7933e-01	4.2093e+00
162	IHT000035	124.5756	127.1146	125.4936	5.3996e-01	4.2878e+00
163	IHT000036	92.9725	95.3163	93.7459	4.7835e-01	4.2058e+00

Velocity 1 = 20.0119 (ft/sec) (+/- 1.7202 %)
 Velocity 2 = 13.4145 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 9.2670 (psi)
 Tsat in = 267.3927 (deg F) Tsat out = 252.6821 (deg F)
 Phi inner = 101.2430 (kBtu/hr-ft2) (+/- 1.4111 %)
 Phi outer = 102.0671 (kBtu/hr-ft2) (+/- 1.6151 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.0820	71.5087	71.3423	1.4481e-01	1.9000e+00
1	TRF000002	71.2952	71.7196	71.6050	1.1510e-01	1.9000e+00
2	TFM000001	86.0034	86.8422	86.4982	2.2721e-01	1.9002e+00
3	TIN000001	86.1829	86.8142	86.4483	1.5205e-01	1.9002e+00
4	TRV000001	86.0094	86.9518	86.5707	2.1422e-01	1.9002e+00
5	TSR000001	107.3626	108.0823	107.7450	1.8815e-01	1.9010e+00
6	TAO020136	115.4548	116.4821	116.0096	2.3761e-01	1.9014e+00
7	TAO050136	113.1193	113.9367	113.4763	1.5223e-01	1.9013e+00
8	TAO070136	116.8393	117.5585	117.2951	1.6103e-01	1.9015e+00
9	TAO080136	122.1202	122.6267	122.4517	1.2501e-01	1.9019e+00
10	TAO090136	123.3654	123.9763	123.6666	1.7807e-01	1.9019e+00
11	TAO100136	119.8049	120.3164	120.1200	1.4866e-01	1.9017e+00
12	TAO105136	121.7828	122.4983	122.1388	1.5068e-01	1.9018e+00
13	TAO110136	124.0251	124.5313	124.2200	1.3863e-01	1.9020e+00
14	TAO115136	121.8387	122.7598	122.3587	2.1470e-01	1.9018e+00
15	TAO120136	127.2976	127.8045	127.5332	1.3329e-01	1.9022e+00
16	TAO125136	123.0230	123.7365	123.4471	1.6517e-01	1.9019e+00
17	TAO130136	122.6417	123.1491	122.9018	1.4047e-01	1.9019e+00
18	TAO120048	128.4624	129.0713	128.7627	1.4638e-01	1.9023e+00
19	TAO130048	125.3400	125.9491	125.6857	1.3314e-01	1.9021e+00
20	TAO120224	126.7002	127.3103	127.0625	1.4549e-01	1.9022e+00
21	TAO130224	121.6066	122.2156	121.9444	1.3528e-01	1.9018e+00
22	TAO120312	126.9779	127.7921	127.2917	1.7057e-01	1.9022e+00
23	TAO130312	127.2301	127.8389	127.4985	1.5181e-01	1.9022e+00
24	TRT020000	114.2820	115.2086	114.7639	1.8301e-01	1.9013e+00
25	TRT070000	119.5263	120.0395	119.7520	1.4369e-01	1.9017e+00
26	TRT100000	128.8552	129.4635	129.1956	1.6606e-01	1.9024e+00
27	TRT120000	128.1611	128.7701	128.4817	1.5123e-01	1.9023e+00
28	TRT125000	131.0350	131.8415	131.4793	1.8794e-01	1.9025e+00
29	TRT130000	128.8689	129.5786	129.1733	1.4768e-01	1.9024e+00
30	EMPTY	39.1464	39.8352	39.4541	2.1562e-01	1.9010e+00
31	TAF050136	95.5740	96.0949	95.8575	1.4868e-01	1.9005e+00
32	TAF070136	99.6308	100.2519	99.9503	1.5617e-01	1.9006e+00
33	TAF080136	121.3160	122.0279	121.6945	1.3799e-01	1.9018e+00
34	TAF090136	105.3035	106.2330	105.8445	2.4295e-01	1.9009e+00
35	TAF100136	104.1883	105.1214	104.6612	1.7413e-01	1.9008e+00
36	TAF105136	105.1324	106.1596	105.5403	2.3554e-01	1.9009e+00
37	TAF110136	110.6932	111.4130	111.0882	1.6665e-01	1.9011e+00
38	TAF115136	107.3998	108.2247	107.7426	1.7361e-01	1.9010e+00
39	TAF120136	115.0057	115.6199	115.3126	1.3888e-01	1.9014e+00
40	TAF125136	109.2370	110.3632	109.8270	2.5073e-01	1.9011e+00
41	TAF130136	110.4404	111.0582	110.7166	1.4324e-01	1.9011e+00
42	TAF120048	110.2913	111.2233	110.8673	2.2359e-01	1.9011e+00
43	TAF130048	111.9892	112.7086	112.4618	1.6352e-01	1.9012e+00
44	TAF120224	109.2944	110.0169	109.7032	1.4733e-01	1.9011e+00
45	TAF130224	110.6092	111.3324	110.9602	1.7479e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	37.9468	1.8167e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1786	1.1374e-01	1.9010e+00
48	TAI130138	122.6743	123.7969	123.2011	2.7294e-01	1.9019e+00
49	TAI130226	121.2683	121.9809	121.6068	1.7019e-01	1.9018e+00
50	TAI130314	123.9169	124.9383	124.4153	2.7337e-01	1.9020e+00
51	TAI130042	121.6192	122.4369	121.9831	2.1061e-01	1.9018e+00
52	TRR130090	100.0709	102.4519	101.2683	4.7774e-01	1.9007e+00
53	TSI000001	46.4127	47.1715	46.7122	1.6754e-01	1.9004e+00
54	TSI000002	108.7751	110.3178	109.6184	3.6101e-01	1.9011e+00
55	TSO000001	45.9992	46.6525	46.3303	1.8268e-01	1.9004e+00
56	TSO000002	52.7145	53.3616	53.0595	1.5408e-01	1.9002e+00
57	TAF020136	88.1054	88.7378	88.4718	1.4933e-01	1.9002e+00
58	TAF120312	109.8173	110.5384	110.2130	2.2719e-01	1.9011e+00
59	TAF130312	114.2636	115.0832	114.6446	1.7332e-01	1.9013e+00
60	EMPTY	1.2012	1.2109	1.2088	2.6396e-03	0.0000e+00
61	EMPTY	1.2158	1.2207	1.2179	2.4344e-03	0.0000e+00
62	EMPTY	1.2256	1.2305	1.2271	2.3008e-03	0.0000e+00
63	EMPTY	1.2402	1.2451	1.2403	6.9053e-04	0.0000e+00
64	EMPTY	0.6592	0.6641	0.6607	2.3008e-03	0.0000e+00
65	EMPTY	0.6738	0.6836	0.6793	1.8821e-03	0.0000e+00
66	EMPTY	0.6934	0.6982	0.6942	1.8950e-03	0.0000e+00
67	EMPTY	0.7080	0.7129	0.7120	1.8950e-03	0.0000e+00
68	EMPTY	0.7227	0.7275	0.7229	9.6655e-04	0.0000e+00
69	EMPTY	0.7373	0.7471	0.7405	2.5362e-03	0.0000e+00
70	EMPTY	0.7520	0.7568	0.7544	2.4662e-03	0.0000e+00
71	EMPTY	0.7715	0.7764	0.7763	6.9053e-04	0.0000e+00
72	EMPTY	0.7861	0.7910	0.7887	2.4642e-03	0.0000e+00
73	EMPTY	0.8008	0.8105	0.8058	1.2041e-03	0.0000e+00
74	EMPTY	0.8203	0.8203	0.8203	0.0000e+00	0.0000e+00
75	EMPTY	0.8350	0.8398	0.8352	9.6655e-04	0.0000e+00
76	EMPTY	0.8447	0.8496	0.8494	9.6655e-04	0.0000e+00
77	EMPTY	0.8643	0.8691	0.8677	2.2603e-03	0.0000e+00
78	EMPTY	0.8887	0.8887	0.8887	0.0000e+00	0.0000e+00
79	EMPTY	0.9082	0.9131	0.9090	1.8082e-03	0.0000e+00
80	PAN020136	30.3182	33.0647	31.4854	6.8816e-01	8.7355e-01
81	PAN050136	57.4104	59.0888	58.2405	3.7650e-01	1.6863e+00
82	PAN070136	43.5553	44.4708	43.9749	2.4286e-01	8.7692e-01
83	PAN080136	18.6482	19.4112	19.0083	1.6388e-01	8.7130e-01
84	PAN090136	17.5947	18.5102	17.9045	1.6630e-01	8.7115e-01
85	PAN100136	20.7256	21.4123	21.1102	1.4291e-01	8.7160e-01
86	PAN105136	8.7760	9.2338	9.0370	9.2598e-02	8.7029e-01
87	PAN110136	11.6767	12.2108	12.0139	1.1336e-01	8.7052e-01
88	PAN115136	10.7040	11.1617	10.9466	9.5875e-02	8.7043e-01
89	PAN120136	7.4659	7.7710	7.6413	8.3362e-02	8.7021e-01
90	PAN125136	11.2204	11.6782	11.4173	9.6370e-02	8.7047e-01
91	PAN130136	10.9665	11.4243	11.2275	1.1017e-01	8.7045e-01
92	PAN120048	23.9182	24.5286	24.2356	1.3292e-01	8.7211e-01
93	PAN130048	18.1727	18.7068	18.4550	1.4480e-01	8.7122e-01
94	PAN120224	18.8770	19.4874	19.1181	1.4571e-01	8.7131e-01
95	PAN130224	21.7234	22.3338	21.9919	1.3191e-01	8.7174e-01
96	PAN120312	22.2222	22.7563	22.4755	1.3119e-01	8.7181e-01
97	PAN130312	21.0132	21.3947	21.1948	1.1523e-01	8.7161e-01
98	PAB000136	39.8568	40.2231	40.0161	9.5772e-02	5.8856e-01
99	PAB100136	32.8725	33.1014	32.9869	5.0017e-02	5.8583e-01
100	PAB125136	31.0968	31.2799	31.1746	4.1617e-02	5.8521e-01

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
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6 of 11

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3592	40.0916	39.7107	1.5130e-01	7.5654e-01
102	PRV000001	15.4875	15.4875	15.4875	9.6336e-07	7.5100e-01
103	PSR000001	29.2039	29.3260	29.2211	4.2787e-02	7.5355e-01
104	PFM000001	60.9706	62.8932	61.6426	3.6836e-01	5.2321e-01
105	PAN000136	252.1310	262.2018	256.5622	2.1855e+00	4.9616e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0069	2.4344e-03	0.0000e+00
108	EMPTY	-8.0957	-7.3584	-7.7398	1.6421e-01	0.0000e+00
109	EMPTY	0.0049	0.0146	0.0076	2.6396e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.9494	102.3400	102.1173	1.0447e-01	1.0156e+00
113	VPW000002	119.3209	119.7116	119.5631	1.1545e-01	1.0820e+00
114	VPW000003	147.3520	147.9380	147.6489	1.2627e-01	1.2004e+00
115	VPW000004	104.9053	105.2960	105.1123	1.2104e-01	1.0266e+00
116	VPW000005	139.6034	139.9940	139.7675	1.0705e-01	1.1659e+00
117	VPW000006	146.3492	146.7398	146.4976	1.2200e-01	1.1953e+00
118	IPW000001	558.2203	564.0773	561.3831	1.3016e+00	9.2346e+00
119	IPW000002	1309.0769	1312.9794	1310.8718	1.3564e+00	1.3147e+01
120	IPW000003	1323.3750	1329.2250	1326.4944	1.2458e+00	1.3245e+01
121	IPW000004	386.0990	387.0755	386.6068	2.7832e-01	3.6508e+00
122	IPW000005	255.1296	256.1060	255.6179	2.6098e-01	2.8422e+00
123	IPW000006	267.4560	268.9209	267.9736	3.7447e-01	2.9123e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	3.1211e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.4164e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.2718e-03	0.0000e+00
128	IHT000001	132.4331	134.1909	133.1870	5.2350e-01	4.3109e+00
129	IHT000002	133.0304	134.5929	133.6319	4.7978e-01	4.3123e+00
130	IHT000003	131.7683	133.7214	132.4676	5.2953e-01	4.3087e+00
131	IHT000004	132.4594	134.6079	133.1665	4.7497e-01	4.3108e+00
132	IHT000005	129.8452	131.9937	130.5952	4.7410e-01	4.3030e+00
133	IHT000006	125.9427	127.8959	126.7787	4.3052e-01	4.2915e+00
134	IHT000007	130.2021	132.3505	131.1552	4.5101e-01	4.3047e+00
135	IHT000008	130.4124	132.5608	131.2914	5.0262e-01	4.3051e+00
136	IHT000009	131.6632	133.6163	132.3819	4.4720e-01	4.3084e+00
137	IHT000010	130.5213	132.6698	131.5057	4.4461e-01	4.3057e+00
138	IHT000011	134.7468	136.8953	135.6961	4.7843e-01	4.3187e+00
139	IHT000012	128.6396	130.3974	129.5771	4.5847e-01	4.2999e+00
140	IHT000013	92.2889	94.2420	93.1678	4.5549e-01	4.2045e+00
141	IHT000014	128.3992	130.1570	129.2079	4.2683e-01	4.2988e+00
142	IHT000015	96.0937	97.8516	97.0859	3.9624e-01	4.2134e+00
143	IHT000016	89.3968	91.3499	90.2405	4.2396e-01	4.1981e+00
144	IHT000017	106.2012	108.1543	107.1191	4.8206e-01	4.2376e+00
145	IHT000018	108.2069	110.5507	109.2069	4.8910e-01	4.2429e+00
146	IHT000019	103.9926	105.7505	104.7505	4.2980e-01	4.2317e+00
147	IHT000020	107.1890	109.1421	108.0171	3.9766e-01	4.2399e+00
148	IHT000021	-2.5579	-0.2141	-1.5227	4.6730e-01	4.1000e+00
149	IHT000022	93.1453	94.9031	94.0164	4.0474e-01	4.2064e+00
150	IHT000023	106.3965	108.5449	107.2559	4.3584e-01	4.2380e+00
151	IHT000024	71.7097	73.4675	72.4480	3.6227e-01	4.1635e+00
152	IHT000025	103.7034	105.4613	104.4456	3.9656e-01	4.2309e+00
153	IHT000026	105.6716	107.4294	106.4255	3.8865e-01	4.2359e+00
154	IHT000027	90.2457	92.5894	91.1831	4.3584e-01	4.2002e+00
155	IHT000028	92.1124	95.0421	93.1280	5.9582e-01	4.2044e+00

Test: May08_02

sum2

Date: Tue May 8 10:46:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6415	108.3759	106.7744	5.9320e-01	4.2368e+00
157	IHT000030	107.8275	110.5619	108.8549	5.8101e-01	4.2420e+00
158	IHT000031	106.7721	109.3111	107.8423	5.6254e-01	4.2395e+00
159	IHT000032	107.9665	110.7009	109.0759	5.6695e-01	4.2426e+00
160	IHT000033	107.9703	110.7046	109.0210	5.5788e-01	4.2425e+00
161	IHT000034	94.5538	96.1163	95.3624	3.9658e-01	4.2094e+00
162	IHT000035	124.7709	126.5287	125.6186	4.5440e-01	4.2881e+00
163	IHT000036	92.9725	94.9256	93.8084	4.1953e-01	4.2059e+00

Velocity 1 = 0.031401 (ft/sec)

Velocity 2 = 0.000299 (ft/sec)

Pressure Drop = 0.060801 (psi)

Tsat in = 0.051788 (deg F) Tsat out = 0.063309 (deg F)

Phi inner = 0.535393 (kBtu/hr-ft2) Phi outer = 0.549301 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1707	0.2398
1	TRF000002	0.1401	0.1960
2	TFM000001	0.2991	0.3446
3	TIN000001	0.2546	0.2936
4	TRV000001	0.2017	0.2324
5	TSR000001	0.3214	0.2974
6	TAO020136	0.3843	0.3302
7	TAO050136	0.3729	0.3275
8	TAO070136	0.1252	0.1069
9	TAO080136	0.4469	0.3636
10	TAO090136	0.4612	0.3716
11	TAO100136	0.3732	0.3097
12	TAO105136	0.4026	0.3285
13	TAO110136	0.4037	0.3239
14	TAO115136	0.4282	0.3487
15	TAO120136	0.4437	0.3467
16	TAO125136	0.4735	0.3821
17	TAO130136	0.4733	0.3836
18	TAO120048	0.4639	0.3590
19	TAO130048	0.5524	0.4376
20	TAO120224	0.5505	0.4314
21	TAO130224	0.5264	0.4298
22	TAO120312	0.4372	0.3423
23	TAO130312	0.5526	0.4316
24	TRT020000	0.4597	0.3990
25	TRT070000	0.4476	0.3724
26	TRT100000	0.4712	0.3634
27	TRT120000	0.4803	0.3724
28	TRT125000	0.5278	0.3998
29	TRT130000	0.5759	0.4439
30	EMPTY	0.0781	0.1976
31	TAF050136	0.4832	0.5016
32	TAF070136	0.4719	0.4699
33	TAF080136	0.5028	0.4115
34	TAF090136	0.0479	0.0453
35	TAF100136	0.4956	0.4713
36	TAF105136	0.5255	0.4955
37	TAF110136	0.5141	0.4607
38	TAF115136	0.5291	0.4887
39	TAF120136	0.5735	0.4949
40	TAF125136	0.5942	0.5381
41	TAF130136	0.5482	0.4927
42	TAF120048	0.4926	0.4423
43	TAF130048	0.4945	0.4378
44	TAF120224	0.5296	0.4804
45	TAF130224	0.4750	0.4263

#	Name	Abs Diff	%Diff
46	EMPTY	0.1104	0.2901
47	EMPTY	0.0873	0.2223
48	TAI130138	0.5893	0.4760
49	TAI130226	0.5177	0.4239
50	TAI130314	0.5984	0.4787
51	TAI130042	0.5615	0.4582
52	TRR130090	7.2019	6.6395
53	TSI000001	0.0362	0.0774
54	TSI000002	0.2494	0.2280
55	TSO000001	0.0550	0.1186
56	TSO000002	0.0320	0.0603
57	TAF020136	0.4875	0.5480
58	TAF120312	0.5446	0.4917
59	TAF130312	0.5827	0.5057
60	EMPTY	0.0169	1.3788
61	EMPTY	0.0175	1.4165
62	EMPTY	0.0175	1.4061
63	EMPTY	0.0151	1.2028
64	EMPTY	0.0082	1.2259
65	EMPTY	0.0091	1.3219
66	EMPTY	0.0081	1.1534
67	EMPTY	0.0060	0.8357
68	EMPTY	0.0077	1.0539
69	EMPTY	0.0066	0.8834
70	EMPTY	0.0071	0.9324
71	EMPTY	0.0064	0.8177
72	EMPTY	0.0072	0.9046
73	EMPTY	0.0082	1.0074
74	EMPTY	0.0056	0.6781
75	EMPTY	0.0090	1.0661
76	EMPTY	0.0060	0.7014
77	EMPTY	0.0063	0.7208
78	EMPTY	0.0054	0.6040
79	EMPTY	0.0086	0.9372
80	PAN020136	0.4364	1.4055
81	PAN050136	0.4944	0.8562
82	PAN070136	0.1220	0.2782
83	PAN080136	0.4242	2.2826
84	PAN090136	0.4501	2.4523
85	PAN100136	0.8362	4.1245
86	PAN105136	0.3204	3.4240
87	PAN110136	0.4104	3.5369
88	PAN115136	0.1678	1.5098
89	PAN120136	0.2700	3.6629
90	PAN125136	0.0519	0.4525
91	PAN130136	0.0778	0.6882
92	PAN120048	0.0427	0.1765
93	PAN130048	0.0504	0.2724
94	PAN120224	0.0824	0.4329
95	PAN130224	0.1328	0.6002
96	PAN120312	0.5035	2.2916
97	PAN130312	0.5753	2.6426
98	PAB000136	0.0348	0.0870
99	PAB100136	0.0247	0.0748
100	PAB125136	0.0339	0.1086

Test: May08_02

dif

Date: Tue May 8 10:46:11 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0757	0.1903
102	PRV000001	0.2026	1.3255
103	PSR000001	0.0732	0.2499
104	PFM000001	0.1977	0.3218
105	PAN000136	1.6846	0.6609
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0008	13.1148
108	EMPTY	0.1223	1.6055
109	EMPTY	0.0018	31.0345
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.2539	0.2480
113	VPW000002	0.0547	0.0458
114	VPW000003	0.0391	0.0265
115	VPW000004	0.0157	0.0149
116	VPW000005	0.0781	0.0558
117	VPW000006	0.0117	0.0080
118	IPW000001	4.6856	0.8277
119	IPW000002	17.8347	1.3793
120	IPW000003	7.5654	0.5736
121	IPW000004	0.3125	0.0808
122	IPW000005	0.2930	0.1148
123	IPW000006	0.4883	0.1826
124	EMPTY	0.0002	0.9804
125	EMPTY	0.0004	3.0075
126	EMPTY	0.0008	5.0633
127	EMPTY	0.0027	14.7541
128	IHT000001	0.0977	0.0733
129	IHT000002	0.0000	0.0000
130	IHT000003	0.0273	0.0206
131	IHT000004	0.0234	0.0176
132	IHT000005	0.0469	0.0359
133	IHT000006	0.1055	0.0831
134	IHT000007	0.0664	0.0506
135	IHT000008	0.0196	0.0149
136	IHT000009	0.0703	0.0531
137	IHT000010	0.1211	0.0922
138	IHT000011	0.0859	0.0633
139	IHT000012	0.1211	0.0936
140	IHT000013	0.0156	0.0167
141	IHT000014	0.0977	0.0757
142	IHT000015	0.0351	0.0362
143	IHT000016	0.1250	0.1383
144	IHT000017	0.6055	0.5621
145	IHT000018	0.1016	0.0929
146	IHT000019	0.0196	0.0187
147	IHT000020	0.0039	0.0036
148	IHT000021	0.0469	3.1779
149	IHT000022	0.3594	0.3808
150	IHT000023	0.0234	0.0218
151	IHT000024	0.0352	0.0486
152	IHT000025	0.0313	0.0300
153	IHT000026	0.0586	0.0550
154	IHT000027	0.2227	0.2436
155	IHT000028	0.2187	0.2343

Test: May08_02 dif Date: Tue May 8 10:46:11 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0234	0.0219
157	IHT000030	0.0234	0.0215
158	IHT000031	0.0468	0.0434
159	IHT000032	0.0040	0.0037
160	IHT000033	0.0078	0.0072
161	IHT000034	0.0743	0.0780
162	IHT000035	0.1250	0.0996
163	IHT000036	0.0625	0.0667

Velocity 1 = 14.0501 (ft/sec) (+/- 1.8646 %)
Velocity 2 = 13.4133 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.2240 (psi)
Tsats in = 267.2958 (deg F) Tsats out = 264.1692 (deg F)
Phi inner = 101.0286 (kBtu/hr-ft2) (+/- 1.4118 %)
Phi outer = 101.7691 (kBtu/hr-ft2) (+/- 1.6162 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.0820	71.7220	71.4788	1.8789e-01	1.9000e+00
1	TRF000002	71.5074	71.9317	71.7492	1.2130e-01	1.9000e+00
2	TFM000001	85.1653	85.8993	85.4966	1.8287e-01	1.9002e+00
3	TIN000001	84.9205	85.8673	85.3961	1.9400e-01	1.9002e+00
4	TRV000001	85.1748	86.1173	85.6769	2.2681e-01	1.9002e+00
5	TSR000001	106.6438	108.6988	107.8155	6.4898e-01	1.9010e+00
6	TAO020136	124.7742	125.5906	125.2354	1.9796e-01	1.9021e+00
7	TAO050136	122.2857	123.1000	122.5720	1.8276e-01	1.9019e+00
8	TAO070136	124.8350	125.9583	125.3908	2.3263e-01	1.9021e+00
9	TAO080136	134.1303	134.9374	134.5627	1.6685e-01	1.9028e+00
10	TAO090136	135.8185	136.7270	136.1985	1.7489e-01	1.9029e+00
11	TAO100136	131.7975	132.5070	132.2030	1.5716e-01	1.9026e+00
12	TAO105136	134.1941	135.1053	134.6759	2.1405e-01	1.9028e+00
13	TAO110136	137.1718	137.8766	137.5188	1.7604e-01	1.9031e+00
14	TAO115136	134.9847	135.8960	135.5113	2.0867e-01	1.9029e+00
15	TAO120136	141.3283	142.0312	141.7023	1.5032e-01	1.9035e+00
16	TAO125136	136.7924	137.7004	137.2366	2.1654e-01	1.9030e+00
17	TAO130136	135.6331	136.3376	136.0638	1.5331e-01	1.9029e+00
18	TAO120048	143.0856	143.9895	143.5318	1.7475e-01	1.9036e+00
19	TAO130048	139.8557	140.3598	140.1341	1.3268e-01	1.9033e+00
20	TAO120224	141.0581	141.9638	141.5775	2.0664e-01	1.9034e+00
21	TAO130224	134.6941	135.4005	134.9658	1.6451e-01	1.9028e+00
22	TAO120312	141.4460	142.4526	142.0540	2.1217e-01	1.9035e+00
23	TAO130312	141.5462	142.1498	141.8243	1.4161e-01	1.9035e+00
24	TRT020000	123.3171	124.3394	123.8776	2.3205e-01	1.9020e+00
25	TRT070000	130.5998	131.5157	131.0841	1.7514e-01	1.9025e+00
26	TRT100000	142.4565	143.1601	142.8547	1.7321e-01	1.9036e+00
27	TRT120000	142.6896	143.4930	143.1836	1.4756e-01	1.9036e+00
28	TRT125000	147.0403	147.9376	147.5917	1.8616e-01	1.9041e+00
29	TRT130000	143.3621	144.0650	143.7720	1.3278e-01	1.9037e+00
30	EMPTY	39.1464	39.8352	39.4817	2.1859e-01	1.9010e+00
31	TAF050136	98.3757	99.2069	98.7584	1.7731e-01	1.9006e+00
32	TAF070136	103.8603	104.8922	104.4668	2.2990e-01	1.9008e+00
33	TAF080136	133.2142	134.2218	133.7430	1.9990e-01	1.9027e+00
34	TAF090136	110.4558	111.4848	110.9826	2.7464e-01	1.9011e+00
35	TAF100136	111.0152	111.8406	111.4279	1.9435e-01	1.9012e+00
36	TAF105136	112.3974	113.4188	112.8297	2.0913e-01	1.9012e+00
37	TAF110136	119.9994	120.8142	120.3742	1.9278e-01	1.9017e+00
38	TAF115136	115.4146	116.1330	115.7638	2.0295e-01	1.9014e+00
39	TAF120136	126.1002	126.8123	126.4870	1.6173e-01	1.9021e+00
40	TAF125136	118.2140	119.1313	118.6587	2.7652e-01	1.9016e+00
41	TAF130136	119.5561	120.1701	119.8715	1.5578e-01	1.9017e+00
42	TAF120048	119.4942	120.4201	119.9425	2.3387e-01	1.9017e+00
43	TAF130048	122.0173	122.9358	122.3851	1.8789e-01	1.9018e+00
44	TAF120224	118.1325	118.9523	118.5016	2.0899e-01	1.9016e+00
45	TAF130224	119.8984	120.8225	120.4246	2.0275e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0940	2.0822e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.3256	9.6091e-02	1.9010e+00
48	TAI130138	136.2774	137.5903	136.8675	3.0697e-01	1.9030e+00
49	TAI130226	134.6272	135.6362	135.1199	2.2002e-01	1.9029e+00
50	TAI130314	137.9388	139.0499	138.4400	2.6913e-01	1.9032e+00
51	TAI130042	135.2368	136.0455	135.6617	1.8491e-01	1.9029e+00
52	TRR130090	116.0229	119.5966	117.9805	8.0191e-01	1.9016e+00
53	TSI000001	46.7380	47.3885	47.0330	1.5955e-01	1.9004e+00
54	TSI000002	111.0359	112.6788	111.8985	3.7849e-01	1.9012e+00
55	TSO000001	45.9992	46.8696	46.4605	1.8987e-01	1.9004e+00
56	TSO000002	53.6843	54.5467	54.1284	1.9558e-01	1.9002e+00
57	TAF020136	88.6317	89.5785	88.9938	2.1378e-01	1.9002e+00
58	TAF120312	118.9415	120.0664	119.4083	3.0565e-01	1.9016e+00
59	TAF130312	125.3752	126.1879	125.7623	1.9694e-01	1.9021e+00
60	EMPTY	1.4648	1.4746	1.4689	2.0598e-03	0.0000e+00
61	EMPTY	1.4746	1.4795	1.4775	2.4164e-03	0.0000e+00
62	EMPTY	1.4844	1.4893	1.4845	6.9053e-04	0.0000e+00
63	EMPTY	1.4941	1.4990	1.4949	1.8082e-03	0.0000e+00
64	EMPTY	0.7715	0.7715	0.7715	0.0000e+00	0.0000e+00
65	EMPTY	0.7861	0.7910	0.7907	1.1714e-03	0.0000e+00
66	EMPTY	0.8008	0.8057	0.8049	1.8082e-03	0.0000e+00
67	EMPTY	0.8154	0.8203	0.8198	1.4797e-03	0.0000e+00
68	EMPTY	0.8301	0.8350	0.8306	1.4797e-03	0.0000e+00
69	EMPTY	0.8447	0.8496	0.8468	2.4344e-03	0.0000e+00
70	EMPTY	0.8594	0.8643	0.8599	1.4797e-03	0.0000e+00
71	EMPTY	0.8789	0.8838	0.8828	1.9730e-03	0.0000e+00
72	EMPTY	0.8936	0.8936	0.8936	0.0000e+00	0.0000e+00
73	EMPTY	0.9082	0.9131	0.9110	2.4344e-03	0.0000e+00
74	EMPTY	0.9229	0.9277	0.9230	9.6655e-04	0.0000e+00
75	EMPTY	0.9375	0.9424	0.9381	1.6028e-03	0.0000e+00
76	EMPTY	0.9473	0.9521	0.9520	9.6655e-04	0.0000e+00
77	EMPTY	0.9668	0.9717	0.9682	2.2146e-03	0.0000e+00
78	EMPTY	0.9863	0.9912	0.9903	1.8950e-03	0.0000e+00
79	EMPTY	1.0107	1.0107	1.0107	0.0000e+00	0.0000e+00
80	PAN020136	6.2856	8.5744	7.2148	5.1646e-01	8.7019e-01
81	PAN050136	12.3969	13.9228	13.1690	3.4660e-01	1.6803e+00
82	PAN070136	10.8252	11.6644	11.2464	2.1091e-01	8.7045e-01
83	PAN080136	3.6946	4.3050	3.9708	1.2224e-01	8.7006e-01
84	PAN090136	3.3277	3.7855	3.5551	1.4500e-01	8.7005e-01
85	PAN100136	5.2380	5.7720	5.4302	1.1456e-01	8.7011e-01
86	PAN105136	1.3755	1.9096	1.6380	1.0472e-01	8.7001e-01
87	PAN110136	3.3607	3.8184	3.6079	8.5209e-02	8.7005e-01
88	PAN115136	2.6931	3.2272	2.9800	1.1068e-01	8.7003e-01
89	PAN120136	0.8283	1.2861	1.1030	8.8545e-02	8.7000e-01
90	PAN125136	2.8281	3.2096	2.9837	8.7139e-02	8.7003e-01
91	PAN130136	2.7268	3.0320	2.9297	9.0679e-02	8.7003e-01
92	PAN120048	6.0654	6.6758	6.3722	1.2282e-01	8.7015e-01
93	PAN130048	3.1428	3.7532	3.4236	1.4658e-01	8.7004e-01
94	PAN120224	4.1523	4.5338	4.3629	1.1280e-01	8.7007e-01
95	PAN130224	5.2439	5.7780	5.4728	1.2331e-01	8.7011e-01
96	PAN120312	5.7428	6.3531	6.0021	1.3958e-01	8.7013e-01
97	PAN130312	4.7626	5.3730	5.1700	1.2580e-01	8.7010e-01
98	PAB000136	39.6737	40.1773	39.9511	1.0880e-01	5.8854e-01
99	PAB100136	38.1368	38.4114	38.2750	5.6626e-02	5.8784e-01
100	PAB125136	37.8259	37.9633	37.9037	4.3624e-02	5.8769e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3592	40.0916	39.7595	2.0640e-01	7.5656e-01
102	PRV000001	15.6096	15.7316	15.6242	4.0071e-02	7.5102e-01
103	PSR000001	37.0164	37.1385	37.0751	6.1605e-02	7.5571e-01
104	PFM000001	29.8427	30.7582	30.2693	2.2775e-01	5.0569e-01
105	PAN000136	57.1237	66.7367	61.5732	2.5311e+00	4.9224e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-8.0469	-7.3535	-7.6078	1.5369e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.7541	102.7306	102.3009	2.3008e-01	1.0163e+00
113	VPW000002	119.3209	119.9069	119.5905	1.3021e-01	1.0821e+00
114	VPW000003	147.5473	147.9380	147.7661	1.1599e-01	1.2009e+00
115	VPW000004	104.9053	105.4913	105.2100	1.6815e-01	1.0269e+00
116	VPW000005	139.4081	140.1893	139.8222	1.6096e-01	1.1662e+00
117	VPW000006	146.3492	146.9351	146.6109	1.4012e-01	1.1958e+00
118	IPW000001	556.2679	566.0297	561.9299	2.5333e+00	9.2367e+00
119	IPW000002	1303.2230	1307.1256	1305.7206	1.3679e+00	1.3115e+01
120	IPW000003	1319.4750	1329.2250	1322.4784	2.2703e+00	1.3220e+01
121	IPW000004	381.2162	385.1224	383.2767	8.2705e-01	3.6288e+00
122	IPW000005	254.1531	255.6178	254.7000	3.9008e-01	2.8370e+00
123	IPW000006	266.4795	268.4326	267.3584	4.8327e-01	2.9088e+00
124	EMPTY	-0.0342	-0.0146	-0.0221	4.4381e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0147	2.6998e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0192	4.1161e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	2.9938e-03	0.0000e+00
128	IHT000001	132.0425	133.9956	133.1753	4.4293e-01	4.3109e+00
129	IHT000002	132.6397	134.3976	133.5655	4.4435e-01	4.3121e+00
130	IHT000003	131.5730	133.3308	132.4481	4.2725e-01	4.3086e+00
131	IHT000004	132.2641	134.4126	133.0141	4.3648e-01	4.3104e+00
132	IHT000005	129.6499	131.6031	130.5015	4.1715e-01	4.3027e+00
133	IHT000006	125.7474	128.0912	126.7162	4.5156e-01	4.2914e+00
134	IHT000007	130.2021	132.7411	131.1865	4.9750e-01	4.3048e+00
135	IHT000008	130.2171	132.7561	131.2914	4.9481e-01	4.3051e+00
136	IHT000009	131.2726	133.6163	132.4053	5.0839e-01	4.3085e+00
137	IHT000010	130.5213	132.8651	131.3534	5.3932e-01	4.3053e+00
138	IHT000011	134.7468	137.0906	135.5594	5.3432e-01	4.3183e+00
139	IHT000012	128.6396	131.3739	129.4287	5.4528e-01	4.2994e+00
140	IHT000013	92.2889	94.2420	93.0623	4.6179e-01	4.2043e+00
141	IHT000014	128.2039	129.9617	129.0008	4.3016e-01	4.2982e+00
142	IHT000015	96.2891	97.8516	96.9609	4.0464e-01	4.2131e+00
143	IHT000016	89.2015	91.1546	90.1897	4.5061e-01	4.1980e+00
144	IHT000017	105.6152	108.1543	106.7715	6.1995e-01	4.2367e+00
145	IHT000018	108.2069	110.1600	109.1678	5.2473e-01	4.2428e+00
146	IHT000019	103.6020	105.7505	104.7388	4.9235e-01	4.2317e+00
147	IHT000020	106.6031	109.1421	107.8726	4.6563e-01	4.2395e+00
148	IHT000021	-2.9485	-0.2141	-1.6633	6.2152e-01	4.1000e+00
149	IHT000022	93.1453	95.2937	94.0594	5.0600e-01	4.2065e+00
150	IHT000023	106.2012	108.3496	107.1348	5.2243e-01	4.2377e+00
151	IHT000024	71.1238	73.2722	72.3191	4.8751e-01	4.1633e+00
152	IHT000025	103.1175	105.4613	104.3480	4.9639e-01	4.2307e+00
153	IHT000026	105.0856	107.4294	106.3981	5.3239e-01	4.2358e+00
154	IHT000027	90.0503	92.3941	91.2339	5.2558e-01	4.2003e+00
155	IHT000028	92.1124	94.4561	93.2412	6.0269e-01	4.2047e+00

Test: May08_03

sum1

Date: Tue May 8 11:02:44 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8369	107.7900	106.7470	5.2290e-01	4.2367e+00
157	IHT000030	107.8275	110.1713	108.8042	5.3670e-01	4.2419e+00
158	IHT000031	106.7721	108.9205	107.7642	5.3502e-01	4.2393e+00
159	IHT000032	107.9665	110.1149	109.0016	5.3706e-01	4.2424e+00
160	IHT000033	107.9703	110.1187	108.9585	5.2261e-01	4.2423e+00
161	IHT000034	94.1632	96.3116	95.2999	4.6302e-01	4.2093e+00
162	IHT000035	124.3803	126.5287	125.4546	4.0864e-01	4.2876e+00
163	IHT000036	92.7772	94.9256	93.8280	4.6670e-01	4.2060e+00

Velocity 1 = 14.1013 (ft/sec) (+/- 1.8619 %)
Velocity 2 = 13.4131 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.2561 (psi)
Tsats in = 266.8642 (deg F) Tsats out = 263.6157 (deg F)
Phi inner = 101.3283 (kBtu/hr-ft2) (+/- 1.4109 %)
Phi outer = 101.7066 (kBtu/hr-ft2) (+/- 1.6166 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.0820	71.9352	71.5940	1.8281e-01	1.9000e+00
1	TRF000002	71.5074	72.1438	71.8171	1.4350e-01	1.9000e+00
2	TFM000001	84.8501	85.6908	85.3145	2.0022e-01	1.9002e+00
3	TIN000001	84.8149	85.8677	85.2761	2.0163e-01	1.9002e+00
4	TRV000001	84.9646	85.6992	85.3158	1.8287e-01	1.9002e+00
5	TSR000001	105.8233	108.1853	107.0294	6.3833e-01	1.9009e+00
6	TAO020136	124.3664	125.4888	124.9681	2.5018e-01	1.9020e+00
7	TAO050136	121.9822	122.6956	122.3190	1.6355e-01	1.9018e+00
8	TAO070136	125.0394	125.8562	125.5275	2.2044e-01	1.9021e+00
9	TAO080136	133.9308	134.6366	134.3243	1.6474e-01	1.9028e+00
10	TAO090136	135.3158	136.4255	135.8744	2.1008e-01	1.9029e+00
11	TAO100136	131.5957	132.4064	131.9504	1.9549e-01	1.9026e+00
12	TAO105136	133.8901	134.9028	134.3661	2.1182e-01	1.9028e+00
13	TAO110136	136.8736	137.5785	137.2423	1.6810e-01	1.9030e+00
14	TAO115136	134.6800	135.6934	135.1848	2.3295e-01	1.9029e+00
15	TAO120136	141.0305	141.7335	141.4142	1.6785e-01	1.9034e+00
16	TAO125136	136.4914	137.6003	136.9530	2.0888e-01	1.9030e+00
17	TAO130136	135.5356	136.2401	135.8526	1.7794e-01	1.9029e+00
18	TAO120048	142.8855	143.8898	143.2653	2.0521e-01	1.9036e+00
19	TAO130048	139.4557	140.1594	139.8319	1.8591e-01	1.9033e+00
20	TAO120224	140.7568	141.7628	141.2941	2.2683e-01	1.9034e+00
21	TAO130224	134.3949	135.2002	134.7443	1.9094e-01	1.9028e+00
22	TAO120312	141.2454	142.4527	141.8670	2.2703e-01	1.9035e+00
23	TAO130312	141.1458	141.9501	141.5460	1.7407e-01	1.9034e+00
24	TRT020000	123.0107	124.0327	123.5686	2.2265e-01	1.9019e+00
25	TRT070000	130.2932	131.2092	130.8571	1.6479e-01	1.9025e+00
26	TRT100000	142.0557	142.8601	142.5363	2.0312e-01	1.9035e+00
27	TRT120000	142.4889	143.1926	142.8608	1.6147e-01	1.9036e+00
28	TRT125000	146.8425	147.6416	147.2047	2.0740e-01	1.9040e+00
29	TRT130000	143.1622	143.8649	143.4541	1.7585e-01	1.9036e+00
30	EMPTY	39.1464	39.8352	39.5138	1.7964e-01	1.9011e+00
31	TAF050136	98.2722	98.8969	98.5951	1.7951e-01	1.9006e+00
32	TAF070136	103.7577	104.7902	104.3089	2.4535e-01	1.9008e+00
33	TAF080136	133.1150	133.8224	133.4608	1.5925e-01	1.9027e+00
34	TAF090136	110.7642	111.7935	111.2193	2.7183e-01	1.9011e+00
35	TAF100136	110.9122	111.8398	111.2484	1.9743e-01	1.9011e+00
36	TAF105136	112.1934	113.1143	112.6083	2.1786e-01	1.9012e+00
37	TAF110136	119.7947	120.5104	120.1893	1.4448e-01	1.9017e+00
38	TAF115136	115.0048	115.9283	115.5122	1.9373e-01	1.9014e+00
39	TAF120136	125.8990	126.7117	126.2301	1.6659e-01	1.9021e+00
40	TAF125136	117.7057	119.0308	118.3891	2.4282e-01	1.9016e+00
41	TAF130136	119.1483	119.9661	119.6820	1.9180e-01	1.9017e+00
42	TAF120048	119.3899	120.2128	119.7669	1.7450e-01	1.9017e+00
43	TAF130048	121.6105	122.5283	122.1469	1.8648e-01	1.9018e+00
44	TAF120224	117.8260	118.8496	118.3154	1.8992e-01	1.9016e+00
45	TAF130224	119.7953	120.6169	120.2123	1.7761e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	1.8253e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3256	1.0670e-01	1.9010e+00
48	TAI130138	135.8736	137.3890	136.5627	3.2814e-01	1.9030e+00
49	TAI130226	134.2249	135.5364	134.8647	2.0447e-01	1.9028e+00
50	TAI130314	137.4335	138.8479	138.2439	3.2503e-01	1.9031e+00
51	TAI130042	135.0352	135.8441	135.5102	1.8184e-01	1.9029e+00
52	TRR130090	112.0284	115.5108	113.6337	1.0033e+00	1.9013e+00
53	TSI000001	46.4135	47.1723	46.8667	1.7058e-01	1.9004e+00
54	TSI000002	111.1393	112.4745	111.7738	3.2572e-01	1.9012e+00
55	TSO000001	45.8894	46.6522	46.2924	1.8831e-01	1.9004e+00
56	TSO000002	53.4694	54.3319	53.9068	1.9646e-01	1.9002e+00
57	TAF020136	88.4203	89.2624	88.8396	2.0768e-01	1.9002e+00
58	TAF120312	118.7377	119.6585	119.2022	2.4797e-01	1.9016e+00
59	TAF130312	124.9704	126.1900	125.5374	2.1060e-01	1.9021e+00
60	EMPTY	1.4600	1.4648	1.4617	2.3675e-03	0.0000e+00
61	EMPTY	1.4697	1.4697	1.4697	0.0000e+00	0.0000e+00
62	EMPTY	1.4746	1.4795	1.4775	2.4164e-03	0.0000e+00
63	EMPTY	1.4844	1.4893	1.4882	2.0432e-03	0.0000e+00
64	EMPTY	0.7666	0.7715	0.7675	1.8950e-03	0.0000e+00
65	EMPTY	0.7861	0.7910	0.7862	6.9053e-04	0.0000e+00
66	EMPTY	0.8008	0.8008	0.8008	0.0000e+00	0.0000e+00
67	EMPTY	0.8154	0.8203	0.8156	9.6655e-04	0.0000e+00
68	EMPTY	0.8252	0.8301	0.8280	2.4344e-03	0.0000e+00
69	EMPTY	0.8398	0.8447	0.8445	9.6655e-04	0.0000e+00
70	EMPTY	0.8545	0.8594	0.8579	2.2603e-03	0.0000e+00
71	EMPTY	0.8789	0.8789	0.8789	0.0000e+00	0.0000e+00
72	EMPTY	0.8887	0.8936	0.8908	2.4484e-03	0.0000e+00
73	EMPTY	0.9033	0.9082	0.9077	1.4797e-03	0.0000e+00
74	EMPTY	0.9180	0.9277	0.9212	2.5362e-03	0.0000e+00
75	EMPTY	0.9326	0.9375	0.9368	1.7115e-03	0.0000e+00
76	EMPTY	0.9473	0.9521	0.9475	9.6655e-04	0.0000e+00
77	EMPTY	0.9619	0.9668	0.9664	1.3381e-03	0.0000e+00
78	EMPTY	0.9863	0.9863	0.9863	0.0000e+00	0.0000e+00
79	EMPTY	1.0059	1.0107	1.0073	2.2603e-03	0.0000e+00
80	PAN020136	6.4381	8.2692	7.1263	4.2000e-01	8.7018e-01
81	PAN050136	12.5495	13.7702	13.2575	2.7184e-01	1.6803e+00
82	PAN070136	11.0541	11.9696	11.4157	1.9116e-01	8.7047e-01
83	PAN080136	3.7709	4.3812	4.0303	1.3079e-01	8.7006e-01
84	PAN090136	3.7092	4.2433	3.9381	1.0790e-01	8.7006e-01
85	PAN100136	5.0091	5.4668	5.2334	1.2274e-01	8.7010e-01
86	PAN105136	1.5281	1.8333	1.6700	8.5834e-02	8.7001e-01
87	PAN110136	3.3607	3.7422	3.5926	8.9824e-02	8.7005e-01
88	PAN115136	2.9983	3.3035	3.2027	7.7744e-02	8.7004e-01
89	PAN120136	0.9046	1.2098	1.0541	7.8534e-02	8.7000e-01
90	PAN125136	2.8281	3.2096	3.0585	8.6495e-02	8.7003e-01
91	PAN130136	2.8794	3.2609	3.0701	9.0206e-02	8.7003e-01
92	PAN120048	6.2943	6.7521	6.5278	1.1679e-01	8.7015e-01
93	PAN130048	3.3717	3.9058	3.5823	1.2191e-01	8.7005e-01
94	PAN120224	4.0760	4.8389	4.3919	1.4865e-01	8.7007e-01
95	PAN130224	5.5491	5.9306	5.7078	1.0772e-01	8.7012e-01
96	PAN120312	5.8953	6.5057	6.1776	1.2640e-01	8.7014e-01
97	PAN130312	5.0678	5.5255	5.2967	1.0224e-01	8.7010e-01
98	PAB000136	39.5364	39.8568	39.6627	8.9932e-02	5.8841e-01
99	PAB100136	37.8621	38.0452	37.9463	5.1790e-02	5.8771e-01
100	PAB125136	37.5055	37.6428	37.5513	3.6993e-02	5.8755e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2371	39.9695	39.4959	1.8885e-01	7.5647e-01
102	PRV000001	15.4875	15.6096	15.5876	4.7374e-02	7.5101e-01
103	PSR000001	36.6502	36.7723	36.7528	4.5206e-02	7.5561e-01
104	PFM000001	29.8427	31.0329	30.4927	2.6240e-01	5.0578e-01
105	PAN000136	58.4970	67.1945	62.4612	2.1081e+00	4.9225e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-8.2568	-7.3828	-7.7421	1.9006e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.9494	102.5353	102.2814	1.5906e-01	1.0162e+00
113	VPW000002	119.3209	119.7116	119.4850	1.4953e-01	1.0817e+00
114	VPW000003	147.5473	148.1333	147.7544	1.2731e-01	1.2008e+00
115	VPW000004	104.9053	105.4913	105.1983	1.2633e-01	1.0269e+00
116	VPW000005	139.6034	139.9940	139.8026	1.5530e-01	1.1661e+00
117	VPW000006	146.3492	146.9351	146.6616	1.1161e-01	1.1960e+00
118	IPW000001	558.2203	562.1250	560.1726	1.4222e+00	9.2301e+00
119	IPW000002	1297.3693	1314.9307	1304.0037	4.2091e+00	1.3105e+01
120	IPW000003	1323.3750	1331.1750	1326.3774	1.3190e+00	1.3244e+01
121	IPW000004	385.6107	387.0755	386.2552	4.3495e-01	3.6484e+00
122	IPW000005	254.1531	256.1060	255.0711	4.4812e-01	2.8391e+00
123	IPW000006	267.4560	269.4091	268.1884	3.8523e-01	2.9136e+00
124	EMPTY	-0.0293	-0.0146	-0.0231	4.0446e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	2.6853e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0189	3.6433e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	2.9742e-03	0.0000e+00
128	IHT000001	132.0425	134.5816	133.2378	6.3213e-01	4.3111e+00
129	IHT000002	132.4444	135.1788	133.6631	6.7029e-01	4.3124e+00
130	IHT000003	131.3777	133.9167	132.5965	6.5858e-01	4.3091e+00
131	IHT000004	131.8735	134.6079	133.2290	7.1071e-01	4.3110e+00
132	IHT000005	129.4546	132.1890	130.7085	6.6038e-01	4.3033e+00
133	IHT000006	125.5521	128.2865	126.8959	5.9926e-01	4.2919e+00
134	IHT000007	129.8114	132.5458	131.2998	5.7844e-01	4.3051e+00
135	IHT000008	129.8264	132.7561	131.4398	5.4933e-01	4.3055e+00
136	IHT000009	130.8819	134.0069	132.5069	6.0418e-01	4.3088e+00
137	IHT000010	130.1307	132.2792	131.3339	5.0434e-01	4.3052e+00
138	IHT000011	134.5515	136.8953	135.6219	4.7881e-01	4.3185e+00
139	IHT000012	128.4442	131.3739	129.4599	5.3233e-01	4.2995e+00
140	IHT000013	92.0936	94.6327	93.0741	5.4746e-01	4.2043e+00
141	IHT000014	128.0086	130.3523	129.0477	5.6281e-01	4.2983e+00
142	IHT000015	96.0937	98.2422	97.0156	5.5389e-01	4.2132e+00
143	IHT000016	89.2015	91.5452	90.2600	5.5676e-01	4.1982e+00
144	IHT000017	105.6152	108.9355	107.0019	7.6234e-01	4.2373e+00
145	IHT000018	108.0116	110.7460	109.1092	5.8513e-01	4.2427e+00
146	IHT000019	103.7973	106.1411	104.7466	4.9128e-01	4.2317e+00
147	IHT000020	106.7984	109.3374	107.8296	5.1454e-01	4.2394e+00
148	IHT000021	-2.7532	-0.0188	-1.5657	5.7837e-01	4.1000e+00
149	IHT000022	92.9500	95.2937	94.0711	5.2171e-01	4.2065e+00
150	IHT000023	106.2012	108.1543	107.1074	4.3720e-01	4.2376e+00
151	IHT000024	71.5144	73.2722	72.3152	3.9311e-01	4.1633e+00
152	IHT000025	103.5081	105.2659	104.3871	4.1432e-01	4.2308e+00
153	IHT000026	105.2810	107.4294	106.4098	4.2552e-01	4.2358e+00
154	IHT000027	90.4410	92.1988	91.3120	4.3621e-01	4.2005e+00
155	IHT000028	91.9171	94.2608	93.0928	4.9045e-01	4.2044e+00

Test: May08_03

sum2

Date: Tue May 8 11:02:44 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4462	107.7900	106.5674	4.6989e-01	4.2362e+00
157	IHT000030	107.4369	109.7807	108.6362	4.8490e-01	4.2415e+00
158	IHT000031	106.5768	108.7252	107.6275	5.0206e-01	4.2389e+00
159	IHT000032	107.9665	110.1149	108.9391	5.3305e-01	4.2423e+00
160	IHT000033	107.9703	110.1187	108.8921	5.3965e-01	4.2421e+00
161	IHT000034	94.5538	96.1163	95.2413	3.9703e-01	4.2092e+00
162	IHT000035	124.5756	126.5287	125.3842	4.5337e-01	4.2874e+00
163	IHT000036	92.9725	94.9256	93.7537	4.1196e-01	4.2058e+00

Test: May08_03 dif Date: Tue May 8 11:02:44 1990 Page: 1

Velocity 1 = 0.051200 (ft/sec)
Velocity 2 = 0.000199 (ft/sec)
Pressure Drop = 0.032100 (psi)
Tsats in = 0.431610 (deg F) Tsats out = 0.553497 (deg F)
Phi inner = 0.299698 (kBtu/hr-ft2) Phi outer = 0.062500 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1152	0.1612
1	TRF000002	0.0679	0.0946
2	TFM000001	0.1821	0.2130
3	TIN000001	0.1200	0.1405
4	TRV000001	0.3611	0.4215
5	TSR000001	0.7861	0.7291
6	TAO020136	0.2673	0.2134
7	TAO050136	0.2530	0.2064
8	TAO070136	0.1367	0.1090
9	TAO080136	0.2384	0.1772
10	TAO090136	0.3241	0.2380
11	TAO100136	0.2526	0.1911
12	TAO105136	0.3098	0.2300
13	TAO110136	0.2765	0.2011
14	TAO115136	0.3265	0.2409
15	TAO120136	0.2881	0.2033
16	TAO125136	0.2836	0.2067
17	TAO130136	0.2112	0.1552
18	TAO120048	0.2665	0.1857
19	TAO130048	0.3022	0.2157
20	TAO120224	0.2834	0.2002
21	TAO130224	0.2215	0.1641
22	TAO120312	0.1870	0.1316
23	TAO130312	0.2783	0.1962
24	TRT020000	0.3090	0.2494
25	TRT070000	0.2270	0.1732
26	TRT100000	0.3184	0.2229
27	TRT120000	0.3228	0.2254
28	TRT125000	0.3870	0.2622
29	TRT130000	0.3179	0.2211
30	EMPTY	0.0321	0.0813
31	TAF050136	0.1633	0.1654
32	TAF070136	0.1579	0.1511
33	TAF080136	0.2822	0.2110
34	TAF090136	0.2367	0.2133
35	TAF100136	0.1795	0.1611
36	TAF105136	0.2214	0.1962
37	TAF110136	0.1849	0.1536
38	TAF115136	0.2516	0.2173
39	TAF120136	0.2569	0.2031
40	TAF125136	0.2696	0.2272
41	TAF130136	0.1895	0.1581
42	TAF120048	0.1756	0.1464
43	TAF130048	0.2382	0.1946
44	TAF120224	0.1862	0.1571
45	TAF130224	0.2123	0.1763

#	Name	Abs Diff	%Diff
46	EMPTY	0.0230	0.0604
47	EMPTY	0.0000	0.0000
48	TAI130138	0.3048	0.2227
49	TAI130226	0.2552	0.1889
50	TAI130314	0.1961	0.1417
51	TAI130042	0.1515	0.1117
52	TRR130090	4.3468	3.6843
53	TSI000001	0.1663	0.3536
54	TSI000002	0.1247	0.1114
55	TSO000001	0.1681	0.3618
56	TSO000002	0.2216	0.4094
57	TAF020136	0.1542	0.1733
58	TAF120312	0.2061	0.1726
59	TAF130312	0.2249	0.1788
60	EMPTY	0.0072	0.4902
61	EMPTY	0.0078	0.5279
62	EMPTY	0.0070	0.4715
63	EMPTY	0.0067	0.4482
64	EMPTY	0.0040	0.5185
65	EMPTY	0.0045	0.5691
66	EMPTY	0.0041	0.5094
67	EMPTY	0.0042	0.5123
68	EMPTY	0.0026	0.3130
69	EMPTY	0.0023	0.2716
70	EMPTY	0.0020	0.2326
71	EMPTY	0.0039	0.4418
72	EMPTY	0.0028	0.3133
73	EMPTY	0.0033	0.3622
74	EMPTY	0.0018	0.1950
75	EMPTY	0.0013	0.1386
76	EMPTY	0.0045	0.4727
77	EMPTY	0.0018	0.1859
78	EMPTY	0.0040	0.4039
79	EMPTY	0.0034	0.3364
80	PAN020136	0.0885	1.2266
81	PAN050136	0.0885	0.6720
82	PAN070136	0.1693	1.5054
83	PAN080136	0.0595	1.4984
84	PAN090136	0.3830	10.7733
85	PAN100136	0.1968	3.6242
86	PAN105136	0.0320	1.9536
87	PAN110136	0.0153	0.4241
88	PAN115136	0.2227	7.4732
89	PAN120136	0.0489	4.4334
90	PAN125136	0.0748	2.5070
91	PAN130136	0.1404	4.7923
92	PAN120048	0.1556	2.4419
93	PAN130048	0.1587	4.6355
94	PAN120224	0.0290	0.6647
95	PAN130224	0.2350	4.2940
96	PAN120312	0.1755	2.9240
97	PAN130312	0.1267	2.4507
98	PAB000136	0.2884	0.7219
99	PAB100136	0.3287	0.8588
100	PAB125136	0.3524	0.9297

Test: May08_03

dif

Date: Tue May 8 11:02:44 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.2636	0.6630
102	PRV000001	0.0366	0.2343
103	PSR000001	0.3223	0.8693
104	PFM000001	0.2234	0.7380
105	PAN000136	0.8880	1.4422
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	2.0408
108	EMPTY	0.1343	1.7653
109	EMPTY	0.0001	2.0408
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0195	0.0191
113	VPW000002	0.1055	0.0882
114	VPW000003	0.0117	0.0079
115	VPW000004	0.0117	0.0111
116	VPW000005	0.0196	0.0140
117	VPW000006	0.0507	0.0346
118	IPW000001	1.7573	0.3127
119	IPW000002	1.7169	0.1315
120	IPW000003	3.8990	0.2948
121	IPW000004	2.9785	0.7771
122	IPW000005	0.3711	0.1457
123	IPW000006	0.8300	0.3104
124	EMPTY	0.0010	4.5249
125	EMPTY	0.0002	1.3605
126	EMPTY	0.0003	1.5625
127	EMPTY	0.0006	3.5503
128	IHT000001	0.0625	0.0469
129	IHT000002	0.0976	0.0731
130	IHT000003	0.1484	0.1120
131	IHT000004	0.2149	0.1616
132	IHT000005	0.2070	0.1586
133	IHT000006	0.1797	0.1418
134	IHT000007	0.1133	0.0864
135	IHT000008	0.1484	0.1130
136	IHT000009	0.1016	0.0767
137	IHT000010	0.0195	0.0148
138	IHT000011	0.0625	0.0461
139	IHT000012	0.0312	0.0241
140	IHT000013	0.0118	0.0127
141	IHT000014	0.0469	0.0364
142	IHT000015	0.0547	0.0564
143	IHT000016	0.0703	0.0780
144	IHT000017	0.2304	0.2158
145	IHT000018	0.0586	0.0537
146	IHT000019	0.0078	0.0074
147	IHT000020	0.0430	0.0399
148	IHT000021	0.0976	5.8679
149	IHT000022	0.0117	0.0124
150	IHT000023	0.0274	0.0256
151	IHT000024	0.0039	0.0054
152	IHT000025	0.0391	0.0375
153	IHT000026	0.0117	0.0110
154	IHT000027	0.0781	0.0856
155	IHT000028	0.1484	0.1592

Test: May08_03 dif Date: Tue May 8 11:02:44 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1796	0.1683
157	IHT000030	0.1680	0.1544
158	IHT000031	0.1367	0.1268
159	IHT000032	0.0625	0.0573
160	IHT000033	0.0664	0.0609
161	IHT000034	0.0586	0.0615
162	IHT000035	0.0704	0.0561
163	IHT000036	0.0743	0.0792

Test: May08_04

sum1

Date: Tue May 8 11:14:56 1990

Page: 1

Velocity 1 = 8.0303 (ft/sec) (+/- 3.0524 %)
Velocity 2 = 8.0464 (ft/sec) (+/- 1.9060 %)
Pressure drop = -2.7366 (psi)
Tsats in = 267.7626 (deg F) Tsats out = 271.5641 (deg F)
Phi inner = 102.2509 (kBtu/hr-ft2) (+/- 1.4085 %)
Phi outer = 101.4301 (kBtu/hr-ft2) (+/- 1.6192 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.2954	71.9352	71.5641	1.8688e-01	1.9000e+00
1	TRF000002	71.5074	71.9317	71.8256	1.1540e-01	1.9000e+00
2	TFM000001	85.3744	86.3197	85.7149	2.2884e-01	1.9002e+00
3	TIN000001	85.3417	85.9727	85.6697	1.4044e-01	1.9002e+00
4	TRV000001	85.4889	86.1173	85.8614	1.4075e-01	1.9002e+00
5	TSR000001	112.2843	113.9215	113.0456	4.1403e-01	1.9012e+00
6	TAO020136	147.9370	148.9397	148.3464	2.4874e-01	1.9041e+00
7	TAO050136	146.2211	147.0212	146.6290	2.0160e-01	1.9040e+00
8	TAO070136	144.9169	146.0238	145.3922	2.4974e-01	1.9038e+00
9	TAO080136	164.8258	165.7134	165.1382	1.7296e-01	1.9061e+00
10	TAO090136	167.8809	168.6698	168.2910	2.0232e-01	1.9065e+00
11	TAO100136	163.7843	164.7733	164.2392	1.9259e-01	1.9060e+00
12	TAO105136	167.6892	168.4796	168.0173	2.1527e-01	1.9065e+00
13	TAO110136	171.9709	172.6579	172.2892	1.8603e-01	1.9070e+00
14	TAO115136	169.8144	170.7030	170.2172	2.2822e-01	1.9068e+00
15	TAO120136	177.8190	178.7932	178.3223	1.8630e-01	1.9079e+00
16	TAO125136	173.1598	174.1417	173.6507	2.3042e-01	1.9072e+00
17	TAO130136	170.5785	171.2619	170.9343	1.5149e-01	1.9069e+00
18	TAO120048	180.6755	181.3595	180.9689	1.5170e-01	1.9083e+00
19	TAO130048	176.7425	177.5250	177.1146	1.6538e-01	1.9077e+00
20	TAO120224	178.0598	179.4298	178.7370	2.6964e-01	1.9079e+00
21	TAO130224	169.0120	169.8959	169.4404	2.2724e-01	1.9066e+00
22	TAO120312	179.6437	180.4265	180.0351	1.9876e-01	1.9081e+00
23	TAO130312	178.3453	178.9329	178.6272	1.4882e-01	1.9079e+00
24	TRT020000	145.7363	146.7418	146.2475	2.5023e-01	1.9039e+00
25	TRT070000	160.1808	160.8787	160.5243	1.7451e-01	1.9055e+00
26	TRT100000	176.8019	177.7805	177.4009	2.0030e-01	1.9078e+00
27	TRT120000	179.9037	180.7838	180.3065	2.1690e-01	1.9082e+00
28	TRT125000	187.4089	188.0874	187.7967	1.7043e-01	1.9093e+00
29	TRT130000	180.8791	181.4656	181.2228	1.4271e-01	1.9083e+00
30	EMPTY	39.1464	39.8352	39.5368	1.9264e-01	1.9011e+00
31	TAF050136	108.4927	109.5222	109.0777	2.3004e-01	1.9010e+00
32	TAF070136	118.1951	119.3168	118.7534	2.5259e-01	1.9016e+00
33	TAF080136	164.2687	165.1560	164.6086	1.8353e-01	1.9060e+00
34	TAF090136	124.0607	125.2827	124.7083	2.8099e-01	1.9020e+00
35	TAF100136	131.1799	132.4996	131.7484	2.6026e-01	1.9026e+00
36	TAF105136	133.4388	134.6424	134.0734	2.8734e-01	1.9028e+00
37	TAF110136	146.5220	147.3228	146.9462	2.2899e-01	1.9040e+00
38	TAF115136	138.4613	139.6694	139.0294	2.1509e-01	1.9032e+00
39	TAF120136	156.9560	157.9484	157.4996	2.4642e-01	1.9052e+00
40	TAF125136	143.4833	144.8823	144.1508	2.8846e-01	1.9037e+00
41	TAF130136	146.0264	146.7281	146.3472	1.8658e-01	1.9039e+00
42	TAF120048	145.7112	146.9207	146.2677	2.4461e-01	1.9039e+00
43	TAF130048	150.2535	151.1521	150.6970	1.9473e-01	1.9044e+00
44	TAF120224	143.6887	144.7940	144.1671	2.6500e-01	1.9037e+00
45	TAF130224	146.9763	148.0830	147.5680	2.4528e-01	1.9040e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0572	1.8471e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4633	1.1257e-01	1.9010e+00
48	TAI130138	172.5451	173.9212	173.1352	3.1149e-01	1.9072e+00
49	TAI130226	170.9829	171.8675	171.3801	2.2855e-01	1.9069e+00
50	TAI130314	174.9245	176.2023	175.5889	2.8544e-01	1.9075e+00
51	TAI130042	171.6400	173.0173	172.4114	2.6845e-01	1.9071e+00
52	TRR130090	119.1893	123.0614	120.8081	8.4937e-01	1.9017e+00
53	TSI000001	46.7380	47.2811	47.0030	1.7813e-01	1.9004e+00
54	TSI000002	114.5217	116.1609	115.4928	3.4816e-01	1.9014e+00
55	TSO000001	45.8886	46.7605	46.2640	2.0891e-01	1.9004e+00
56	TSO000002	55.9447	56.9129	56.3533	2.3412e-01	1.9001e+00
57	TAF020136	92.6295	93.8884	93.2673	2.9964e-01	1.9004e+00
58	TAF120312	145.5368	146.7380	146.0973	3.1272e-01	1.9039e+00
59	TAF130312	155.9799	157.4672	156.6743	3.3540e-01	1.9051e+00
60	EMPTY	2.2070	2.2217	2.2142	2.9938e-03	0.0000e+00
61	EMPTY	2.2119	2.2217	2.2167	1.5566e-03	0.0000e+00
62	EMPTY	2.2168	2.2217	2.2197	2.4164e-03	0.0000e+00
63	EMPTY	2.2217	2.2266	2.2262	1.3381e-03	0.0000e+00
64	EMPTY	1.0889	1.0938	1.0893	1.3381e-03	0.0000e+00
65	EMPTY	1.1035	1.1084	1.1079	1.4797e-03	0.0000e+00
66	EMPTY	1.1182	1.1230	1.1183	6.9053e-04	0.0000e+00
67	EMPTY	1.1328	1.1377	1.1329	6.9053e-04	0.0000e+00
68	EMPTY	1.1426	1.1475	1.1428	9.6655e-04	0.0000e+00
69	EMPTY	1.1572	1.1572	1.1572	0.0000e+00	0.0000e+00
70	EMPTY	1.1670	1.1719	1.1693	2.4642e-03	0.0000e+00
71	EMPTY	1.1865	1.1914	1.1886	2.4344e-03	0.0000e+00
72	EMPTY	1.1963	1.2012	1.1992	2.4164e-03	0.0000e+00
73	EMPTY	1.2109	1.2158	1.2146	2.1635e-03	0.0000e+00
74	EMPTY	1.2256	1.2305	1.2258	9.6655e-04	0.0000e+00
75	EMPTY	1.2354	1.2500	1.2402	1.7086e-03	0.0000e+00
76	EMPTY	1.2451	1.2500	1.2498	9.6655e-04	0.0000e+00
77	EMPTY	1.2646	1.2695	1.2648	9.6655e-04	0.0000e+00
78	EMPTY	1.2842	1.2891	1.2843	6.9053e-04	0.0000e+00
79	EMPTY	1.3037	1.3086	1.3044	1.7115e-03	0.0000e+00
80	PAN020136	-10.2702	-8.7443	-9.5485	3.6774e-01	8.7033e-01
81	PAN050136	-19.3414	-18.1207	-18.7219	3.2974e-01	1.6807e+00
82	PAN070136	-11.9867	-11.0711	-11.6235	2.0826e-01	8.7049e-01
83	PAN080136	-6.6051	-6.1473	-6.3960	1.0769e-01	8.7015e-01
84	PAN090136	-6.5905	-5.9801	-6.1815	1.2781e-01	8.7014e-01
85	PAN100136	-6.1298	-5.5195	-5.8720	1.1420e-01	8.7012e-01
86	PAN105136	-3.2784	-2.8206	-3.0129	8.7519e-02	8.7003e-01
87	PAN110136	-2.8954	-2.5140	-2.7245	8.9293e-02	8.7003e-01
88	PAN115136	-3.2578	-2.7238	-2.9740	9.8744e-02	8.7003e-01
89	PAN120136	-3.5205	-3.0627	-3.2794	8.7682e-02	8.7004e-01
90	PAN125136	-3.0465	-2.5888	-2.7932	8.2200e-02	8.7003e-01
91	PAN130136	-2.9952	-2.6901	-2.8839	7.4258e-02	8.7003e-01
92	PAN120048	-6.2942	-5.8364	-6.0516	1.2204e-01	8.7013e-01
93	PAN130048	-7.1568	-6.6991	-6.9463	1.1280e-01	8.7017e-01
94	PAN120224	-6.3763	-5.8422	-6.1565	1.2677e-01	8.7014e-01
95	PAN130224	-6.1239	-5.5898	-5.9332	1.2451e-01	8.7013e-01
96	PAN120312	-5.8539	-5.2436	-5.5686	1.2879e-01	8.7011e-01
97	PAN130312	-6.1474	-5.5371	-5.8438	1.4335e-01	8.7012e-01
98	PAB000136	39.9484	40.5435	40.2652	1.1981e-01	5.8867e-01
99	PAB100136	42.2109	42.3940	42.3097	4.6573e-02	5.8957e-01
100	PAB125136	42.8613	42.9529	42.9034	3.9062e-02	5.8983e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8474	40.5799	40.2112	1.6450e-01	7.5671e-01
102	PRV000001	15.3654	15.6096	15.5632	6.4735e-02	7.5101e-01
103	PSR000001	42.8758	42.9979	42.8832	2.9284e-02	7.5762e-01
104	PFM000001	9.5180	10.0673	9.7890	1.1092e-01	5.0060e-01
105	PAN000136	-80.6632	-70.1346	-75.7651	2.5111e+00	4.9236e+00
106	PFM000002	9.6326	9.9514	9.8289	7.3748e-02	2.0150e-01
107	EMPTY	-0.0049	0.0049	0.0007	3.6924e-03	0.0000e+00
108	EMPTY	-8.2568	-7.4512	-7.7344	1.4837e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.3400	102.9259	102.6173	1.5828e-01	1.0174e+00
113	VPW000002	119.5162	119.9069	119.7116	7.8918e-02	1.0826e+00
114	VPW000003	147.7426	148.1333	147.9731	1.4057e-01	1.2018e+00
115	VPW000004	105.1006	105.6866	105.3662	1.2944e-01	1.0275e+00
116	VPW000005	139.9940	140.3846	140.1698	1.0625e-01	1.1677e+00
117	VPW000006	146.5445	147.1304	146.8179	1.1838e-01	1.1967e+00
118	IPW000001	540.6492	544.5539	542.2891	1.2067e+00	9.1632e+00
119	IPW000002	1309.0769	1312.9794	1311.2231	1.0614e+00	1.3150e+01
120	IPW000003	1335.0751	1340.9250	1338.3511	1.2104e+00	1.3319e+01
121	IPW000004	381.7044	382.6810	381.9876	2.6267e-01	3.6203e+00
122	IPW000005	254.1531	255.6178	255.0124	3.4957e-01	2.8388e+00
123	IPW000006	267.9443	269.4091	268.4521	3.8155e-01	2.9151e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.8862e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0145	3.4116e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0175	3.2851e-03	0.0000e+00
128	IHT000001	131.8472	134.1909	133.0620	4.9172e-01	4.3105e+00
129	IHT000002	132.4444	134.2022	133.3311	4.2537e-01	4.3113e+00
130	IHT000003	131.3777	133.5261	132.3700	4.9731e-01	4.3084e+00
131	IHT000004	131.8735	134.2172	132.9477	5.3416e-01	4.3102e+00
132	IHT000005	129.2593	131.6031	130.4859	4.8655e-01	4.3026e+00
133	IHT000006	125.5521	127.8959	126.7201	4.4728e-01	4.2914e+00
134	IHT000007	130.0068	132.1552	131.1826	4.3313e-01	4.3048e+00
135	IHT000008	130.2171	132.1702	131.3109	4.3762e-01	4.3051e+00
136	IHT000009	131.4679	133.2257	132.3975	4.2965e-01	4.3085e+00
137	IHT000010	130.5213	132.4745	131.4393	4.9795e-01	4.3055e+00
138	IHT000011	134.9421	136.7000	135.6141	4.7213e-01	4.3185e+00
139	IHT000012	128.4442	130.3974	129.4521	4.8062e-01	4.2995e+00
140	IHT000013	92.2889	94.4373	93.0350	4.6804e-01	4.2042e+00
141	IHT000014	128.3992	130.3523	129.1336	4.7114e-01	4.2986e+00
142	IHT000015	96.0937	98.0469	96.9141	4.5677e-01	4.2130e+00
143	IHT000016	89.3968	91.5452	90.2757	4.8206e-01	4.1982e+00
144	IHT000017	107.1777	109.5215	108.0566	5.2977e-01	4.2400e+00
145	IHT000018	108.4022	110.5507	109.2421	5.0262e-01	4.2430e+00
146	IHT000019	103.7973	106.3364	104.8481	5.5227e-01	4.2319e+00
147	IHT000020	106.9937	109.1421	107.9351	5.2302e-01	4.2397e+00
148	IHT000021	-2.5579	0.1765	-1.4133	6.4599e-01	4.1000e+00
149	IHT000022	93.1453	95.4890	94.1805	5.1335e-01	4.2068e+00
150	IHT000023	106.2012	108.1543	107.2168	4.5847e-01	4.2379e+00
151	IHT000024	71.7097	73.2722	72.3777	4.1590e-01	4.1634e+00
152	IHT000025	103.7034	105.6566	104.5746	4.5883e-01	4.2313e+00
153	IHT000026	105.6716	107.4294	106.5348	4.1590e-01	4.2361e+00
154	IHT000027	90.6363	92.1988	91.3980	4.0289e-01	4.2006e+00
155	IHT000028	92.3077	95.0421	93.3467	4.8559e-01	4.2049e+00

Test: May08_04

sum1

Date: Tue May 8 11:14:56 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.8369	108.3759	106.7549	4.9007e-01	4.2367e+00
157	IHT000030	107.8275	109.9760	108.7534	4.7973e-01	4.2418e+00
158	IHT000031	106.7721	108.9205	107.7212	4.7353e-01	4.2391e+00
159	IHT000032	108.1618	110.3102	109.0134	5.1864e-01	4.2425e+00
160	IHT000033	108.1656	110.1187	108.9898	4.9488e-01	4.2424e+00
161	IHT000034	94.5538	96.1163	95.3272	4.1189e-01	4.2094e+00
162	IHT000035	124.5756	126.7240	125.5678	4.7978e-01	4.2880e+00
163	IHT000036	92.9725	94.7303	93.7576	4.9833e-01	4.2058e+00

Velocity 1 = 7.9784 (ft/sec) (+/- 3.0812 %)
Velocity 2 = 8.0013 (ft/sec) (+/- 1.9112 %)
Pressure drop = -2.7406 (psi)
Tsats in = 267.7640 (deg F) Tsats out = 271.6013 (deg F)
Phi inner = 102.0655 (kBtu/hr-ft2) (+/- 1.4090 %)
Phi outer = 101.9557 (kBtu/hr-ft2) (+/- 1.6167 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.2954	71.9352	71.7177	1.8527e-01	1.9000e+00
1	TRF000002	71.7196	72.1438	71.9953	1.2308e-01	1.9000e+00
2	TFM000001	86.8417	87.6811	87.2576	2.1394e-01	1.9002e+00
3	TIN000001	86.7087	87.4446	87.0957	1.7046e-01	1.9002e+00
4	TRV000001	86.9518	87.7894	87.4375	2.0029e-01	1.9002e+00
5	TSR000001	118.0005	119.4287	118.6744	3.9770e-01	1.9016e+00
6	TAO020136	149.1397	150.1413	149.6608	2.7143e-01	1.9043e+00
7	TAO050136	147.3178	148.5148	147.9324	2.4140e-01	1.9041e+00
8	TAO070136	148.1342	148.9373	148.5718	2.2914e-01	1.9042e+00
9	TAO080136	166.1040	166.8903	166.5329	1.8425e-01	1.9063e+00
10	TAO090136	168.9636	170.0455	169.6288	2.1382e-01	1.9067e+00
11	TAO100136	165.2658	166.1541	165.7715	2.1545e-01	1.9062e+00
12	TAO105136	168.5776	169.9592	169.4739	2.7397e-01	1.9067e+00
13	TAO110136	173.2388	174.1173	173.7537	2.3675e-01	1.9072e+00
14	TAO115136	170.9005	172.2823	171.5796	2.5022e-01	1.9069e+00
15	TAO120136	179.2769	180.1525	179.8056	2.0560e-01	1.9081e+00
16	TAO125136	174.6304	175.6109	175.1285	2.2490e-01	1.9074e+00
17	TAO130136	172.0328	172.7160	172.4319	1.8070e-01	1.9071e+00
18	TAO120048	182.0422	182.7250	182.4165	1.8749e-01	1.9085e+00
19	TAO130048	178.3035	178.8908	178.6053	1.6391e-01	1.9079e+00
20	TAO120224	179.4290	180.6031	180.1493	2.2855e-01	1.9082e+00
21	TAO130224	170.3800	171.2616	170.8471	2.3366e-01	1.9068e+00
22	TAO120312	181.0126	181.8931	181.4784	1.9909e-01	1.9084e+00
23	TAO130312	179.8089	180.3959	180.0950	1.5905e-01	1.9081e+00
24	TRT020000	147.0434	148.2482	147.5496	2.5495e-01	1.9040e+00
25	TRT070000	161.2786	162.1749	161.7728	2.3283e-01	1.9057e+00
26	TRT100000	178.3653	179.2457	178.8118	1.8761e-01	1.9080e+00
27	TRT120000	181.3687	182.1495	181.7393	1.7426e-01	1.9084e+00
28	TRT125000	188.6644	189.6312	189.1838	1.9722e-01	1.9095e+00
29	TRT130000	182.3396	182.9255	182.6601	1.6847e-01	1.9085e+00
30	EMPTY	39.1464	39.8352	39.4909	2.3764e-01	1.9011e+00
31	TAF050136	109.9322	111.0630	110.4383	2.5334e-01	1.9011e+00
32	TAF070136	119.7218	120.7396	120.1905	2.2718e-01	1.9017e+00
33	TAF080136	165.5457	166.4304	165.9076	1.9100e-01	1.9062e+00
34	TAF090136	125.9926	127.2128	126.6152	2.6897e-01	1.9022e+00
35	TAF100136	132.7022	133.5138	133.1688	1.9434e-01	1.9027e+00
36	TAF105136	134.8423	136.0489	135.4021	2.9916e-01	1.9029e+00
37	TAF110136	147.9200	148.8189	148.4432	2.1033e-01	1.9041e+00
38	TAF115136	140.0710	140.7755	140.3770	2.1025e-01	1.9033e+00
39	TAF120136	158.4409	159.4323	158.9409	2.3083e-01	1.9053e+00
40	TAF125136	145.1779	146.1771	145.6581	2.5506e-01	1.9039e+00
41	TAF130136	147.4272	148.2269	147.8588	1.9538e-01	1.9041e+00
42	TAF120048	147.2251	148.2310	147.8166	2.4386e-01	1.9041e+00
43	TAF130048	151.8494	152.6470	152.1848	2.0025e-01	1.9045e+00
44	TAF120224	145.0940	146.2982	145.5681	2.5723e-01	1.9038e+00
45	TAF130224	148.3852	149.4907	149.0006	2.3023e-01	1.9042e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.0248e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4496	1.0818e-01	1.9010e+00
48	TAI130138	173.8227	175.0997	174.5735	2.9753e-01	1.9074e+00
49	TAI130226	172.3550	173.5321	172.9283	2.3872e-01	1.9071e+00
50	TAI130314	176.4967	177.7733	177.1334	3.1259e-01	1.9077e+00
51	TAI130042	173.5085	174.3932	173.9568	2.1862e-01	1.9073e+00
52	TRR130090	125.0940	127.5284	126.3843	5.1789e-01	1.9021e+00
53	TSI000001	46.7382	47.4968	47.1679	1.8053e-01	1.9004e+00
54	TSI000002	116.1596	117.4888	116.7695	2.8233e-01	1.9015e+00
55	TSO000001	45.9984	46.7600	46.4247	1.7846e-01	1.9004e+00
56	TSO000002	56.1592	57.2351	56.7233	2.2751e-01	1.9001e+00
57	TAF020136	93.9940	95.0410	94.5341	2.3790e-01	1.9004e+00
58	TAF120312	146.9375	148.0381	147.5259	2.6469e-01	1.9040e+00
59	TAF130312	157.3680	158.8546	158.2129	3.3092e-01	1.9052e+00
60	EMPTY	2.2412	2.2559	2.2487	2.9938e-03	0.0000e+00
61	EMPTY	2.2461	2.2559	2.2509	1.8429e-03	0.0000e+00
62	EMPTY	2.2510	2.2559	2.2535	2.4642e-03	0.0000e+00
63	EMPTY	2.2559	2.2656	2.2606	1.5566e-03	0.0000e+00
64	EMPTY	1.1035	1.1084	1.1052	2.3365e-03	0.0000e+00
65	EMPTY	1.1182	1.1230	1.1229	9.6655e-04	0.0000e+00
66	EMPTY	1.1328	1.1377	1.1330	9.6655e-04	0.0000e+00
67	EMPTY	1.1426	1.1475	1.1474	6.9053e-04	0.0000e+00
68	EMPTY	1.1572	1.1572	1.1572	0.0000e+00	0.0000e+00
69	EMPTY	1.1719	1.1768	1.1720	6.9053e-04	0.0000e+00
70	EMPTY	1.1816	1.1865	1.1826	1.9730e-03	0.0000e+00
71	EMPTY	1.2012	1.2061	1.2031	2.4164e-03	0.0000e+00
72	EMPTY	1.2109	1.2158	1.2128	2.3941e-03	0.0000e+00
73	EMPTY	1.2256	1.2305	1.2297	1.8082e-03	0.0000e+00
74	EMPTY	1.2402	1.2402	1.2402	0.0000e+00	0.0000e+00
75	EMPTY	1.2500	1.2549	1.2533	2.3008e-03	0.0000e+00
76	EMPTY	1.2598	1.2646	1.2646	6.9053e-04	0.0000e+00
77	EMPTY	1.2793	1.2793	1.2793	0.0000e+00	0.0000e+00
78	EMPTY	1.2939	1.2988	1.2987	6.9053e-04	0.0000e+00
79	EMPTY	1.3184	1.3184	1.3184	0.0000e+00	0.0000e+00
80	PAN020136	-10.4991	-9.0495	-9.8079	2.9785e-01	8.7035e-01
81	PAN050136	-19.4939	-18.4258	-18.9629	2.6201e-01	1.6807e+00
82	PAN070136	-12.1393	-11.3000	-11.7074	1.6284e-01	8.7049e-01
83	PAN080136	-6.6814	-6.2999	-6.5028	1.0635e-01	8.7015e-01
84	PAN090136	-6.5905	-5.9801	-6.3082	1.2640e-01	8.7014e-01
85	PAN100136	-6.0536	-5.6721	-5.9025	9.8080e-02	8.7013e-01
86	PAN105136	-3.2021	-2.8969	-3.0999	7.6465e-02	8.7003e-01
87	PAN110136	-2.8954	-2.5140	-2.7367	8.4199e-02	8.7003e-01
88	PAN115136	-3.1052	-2.8001	-3.0015	8.9559e-02	8.7003e-01
89	PAN120136	-3.5205	-3.1390	-3.3175	7.3292e-02	8.7004e-01
90	PAN125136	-2.9702	-2.7414	-2.8268	6.2876e-02	8.7003e-01
91	PAN130136	-3.0715	-2.7664	-2.9113	6.9362e-02	8.7003e-01
92	PAN120048	-6.3705	-5.9890	-6.1202	9.6308e-02	8.7013e-01
93	PAN130048	-7.3094	-6.7754	-7.0165	1.0150e-01	8.7018e-01
94	PAN120224	-6.3000	-5.9185	-6.1398	1.0926e-01	8.7014e-01
95	PAN130224	-6.1239	-5.8187	-5.9881	8.0521e-02	8.7013e-01
96	PAN120312	-5.8539	-5.3962	-5.6128	9.7923e-02	8.7011e-01
97	PAN130312	-6.1474	-5.6897	-5.9277	9.7045e-02	8.7013e-01
98	PAB000136	40.0400	40.4519	40.2661	8.4968e-02	5.8867e-01
99	PAB100136	42.2566	42.3940	42.3262	3.9498e-02	5.8957e-01
100	PAB125136	42.8613	42.9987	42.9300	4.3624e-02	5.8985e-01

Test: May08_04

sum2

Date: Tue May 8 11:14:56 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8474	40.4578	40.0989	1.3145e-01	7.5667e-01
102	PRV000001	15.4875	15.6096	15.5949	4.0071e-02	7.5101e-01
103	PSR000001	42.8758	42.9979	42.9125	5.6508e-02	7.5763e-01
104	PFM000001	9.3349	9.7926	9.6590	1.2017e-01	5.0058e-01
105	PAN000136	-79.2899	-71.0501	-75.8749	1.8501e+00	4.9237e+00
106	PFM000002	9.5822	9.8004	9.7151	5.0945e-02	2.0147e-01
107	EMPTY	-0.0049	0.0049	0.0007	4.1864e-03	0.0000e+00
108	EMPTY	-8.2617	-7.5635	-7.8189	1.5038e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.3400	102.7306	102.4259	1.0559e-01	1.0167e+00
113	VPW000002	119.5162	119.9069	119.7467	1.0942e-01	1.0827e+00
114	VPW000003	147.7426	148.1333	147.9770	1.0440e-01	1.2018e+00
115	VPW000004	104.9053	105.4913	105.2920	1.4493e-01	1.0272e+00
116	VPW000005	139.9940	140.1893	140.1308	9.0412e-02	1.1675e+00
117	VPW000006	146.7398	147.1304	146.8726	1.1464e-01	1.1969e+00
118	IPW000001	544.5539	552.3633	548.4196	1.9914e+00	9.1859e+00
119	IPW000002	1307.1256	1320.7844	1315.1647	3.8148e+00	1.3174e+01
120	IPW000003	1331.1750	1338.9750	1335.0748	2.2286e+00	1.3299e+01
121	IPW000004	384.6341	386.5872	385.5911	4.4072e-01	3.6441e+00
122	IPW000005	255.1296	256.1060	255.8132	2.6098e-01	2.8433e+00
123	IPW000006	267.9443	269.8974	268.6865	3.9754e-01	2.9164e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.5786e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	3.0945e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	3.6963e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0173	3.7186e-03	0.0000e+00
128	IHT000001	131.8472	134.1909	133.0073	6.3676e-01	4.3103e+00
129	IHT000002	132.2491	134.7882	133.4444	6.1338e-01	4.3117e+00
130	IHT000003	131.1824	133.3308	132.3856	5.7367e-01	4.3084e+00
131	IHT000004	131.8735	134.4126	133.0024	5.9227e-01	4.3103e+00
132	IHT000005	129.4546	131.7984	130.4663	5.7817e-01	4.3026e+00
133	IHT000006	125.5521	127.8959	126.7474	5.5473e-01	4.2914e+00
134	IHT000007	130.0068	132.5458	131.2099	5.6958e-01	4.3048e+00
135	IHT000008	130.0218	132.3655	131.2874	5.2235e-01	4.3051e+00
136	IHT000009	130.8819	133.2257	132.3155	5.2141e-01	4.3082e+00
137	IHT000010	130.5213	132.4745	131.3300	5.3672e-01	4.3052e+00
138	IHT000011	134.7468	136.7000	135.5829	5.0846e-01	4.3184e+00
139	IHT000012	128.6396	130.3974	129.3857	4.5964e-01	4.2993e+00
140	IHT000013	91.8983	93.8514	92.9178	4.7069e-01	4.2040e+00
141	IHT000014	128.2039	130.1570	129.0750	4.5542e-01	4.2984e+00
142	IHT000015	95.8984	98.2422	96.8555	4.6897e-01	4.2128e+00
143	IHT000016	89.2015	91.1546	90.0686	4.1789e-01	4.1978e+00
144	IHT000017	105.4199	109.5215	107.2207	9.9535e-01	4.2379e+00
145	IHT000018	107.8163	110.3553	109.1288	5.4682e-01	4.2427e+00
146	IHT000019	103.7973	105.9458	104.7505	4.6125e-01	4.2317e+00
147	IHT000020	106.7984	108.9468	107.7827	4.9120e-01	4.2393e+00
148	IHT000021	-2.5579	-0.0188	-1.5305	6.0594e-01	4.1000e+00
149	IHT000022	93.1453	95.2937	93.9226	4.8567e-01	4.2062e+00
150	IHT000023	106.2012	108.5449	107.1426	5.3041e-01	4.2377e+00
151	IHT000024	71.3191	73.4675	72.3230	5.0225e-01	4.1633e+00
152	IHT000025	103.5081	105.6566	104.4769	5.0372e-01	4.2310e+00
153	IHT000026	105.6716	107.6247	106.4802	4.8969e-01	4.2360e+00
154	IHT000027	90.4410	92.3941	91.2534	4.5739e-01	4.2003e+00
155	IHT000028	92.1124	94.2608	93.0537	4.7135e-01	4.2043e+00

Test: May08_04

sum2

Date: Tue May 8 11:14:56 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0322	107.9853	106.7158	4.8848e-01	4.2366e+00
157	IHT000030	107.6322	109.9760	108.7143	4.9159e-01	4.2417e+00
158	IHT000031	106.5768	109.1158	107.6665	4.9299e-01	4.2390e+00
159	IHT000032	107.9665	110.7009	108.9509	5.4954e-01	4.2423e+00
160	IHT000033	107.7749	110.7046	108.8960	5.5637e-01	4.2421e+00
161	IHT000034	94.3585	96.3116	95.1905	4.5302e-01	4.2091e+00
162	IHT000035	124.7709	126.7240	125.4663	4.7377e-01	4.2877e+00
163	IHT000036	92.9725	94.7303	93.7264	4.2865e-01	4.2058e+00

Test: May08_04 dif Date: Tue May 8 11:14:56 1990 Page: 1

Velocity 1 = 0.051900 (ft/sec)

Velocity 2 = 0.045100 (ft/sec)

Pressure Drop = 0.004000 (psi)

Tsat in = 0.001404 (deg F) Tsat out = 0.037201 (deg F)

Phi inner = 0.185402 (kBtu/hr-ft2) Phi outer = 0.525604 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1536	0.2146
1	TRF000002	0.1697	0.2363
2	TFM000001	1.5427	1.7998
3	TIN000001	1.4260	1.6645
4	TRV000001	1.5761	1.8356
5	TSR000001	5.6288	4.9792
6	TAO020136	1.3144	0.8860
7	TAO050136	1.3034	0.8889
8	TAO070136	3.1796	2.1869
9	TAO080136	1.3947	0.8446
10	TAO090136	1.3378	0.7949
11	TAO100136	1.5323	0.9330
12	TAO105136	1.4566	0.8669
13	TAO110136	1.4645	0.8500
14	TAO115136	1.3624	0.8004
15	TAO120136	1.4833	0.8318
16	TAO125136	1.4778	0.8510
17	TAO130136	1.4976	0.8761
18	TAO120048	1.4476	0.7999
19	TAO130048	1.4907	0.8417
20	TAO120224	1.4123	0.7902
21	TAO130224	1.4067	0.8302
22	TAO120312	1.4433	0.8017
23	TAO130312	1.4678	0.8217
24	TRT020000	1.3021	0.8903
25	TRT070000	1.2485	0.7778
26	TRT100000	1.4109	0.7953
27	TRT120000	1.4328	0.7946
28	TRT125000	1.3871	0.7386
29	TRT130000	1.4373	0.7931
30	EMPTY	0.0459	0.1161
31	TAF050136	1.3606	1.2474
32	TAF070136	1.4371	1.2102
33	TAF080136	1.2990	0.7891
34	TAF090136	1.9069	1.5291
35	TAF100136	1.4204	1.0781
36	TAF105136	1.3287	0.9910
37	TAF110136	1.4970	1.0187
38	TAF115136	1.3476	0.9693
39	TAF120136	1.4413	0.9151
40	TAF125136	1.5073	1.0456
41	TAF130136	1.5116	1.0329
42	TAF120048	1.5489	1.0590
43	TAF130048	1.4878	0.9873
44	TAF120224	1.4010	0.9718
45	TAF130224	1.4326	0.9708

#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0846
47	EMPTY	0.0137	0.0347
48	TAI130138	1.4383	0.8307
49	TAI130226	1.5482	0.9034
50	TAI130314	1.5445	0.8796
51	TAI130042	1.5454	0.8963
52	TRR130090	5.5762	4.6158
53	TSI000001	0.1649	0.3508
54	TSI000002	1.2767	1.1054
55	TSO000001	0.1607	0.3474
56	TSO000002	0.3700	0.6566
57	TAF020136	1.2668	1.3582
58	TAF120312	1.4286	0.9778
59	TAF130312	1.5386	0.9820
60	EMPTY	0.0345	1.5581
61	EMPTY	0.0342	1.5428
62	EMPTY	0.0338	1.5227
63	EMPTY	0.0344	1.5452
64	EMPTY	0.0159	1.4597
65	EMPTY	0.0150	1.3539
66	EMPTY	0.0147	1.3145
67	EMPTY	0.0145	1.2799
68	EMPTY	0.0144	1.2601
69	EMPTY	0.0148	1.2790
70	EMPTY	0.0133	1.1374
71	EMPTY	0.0145	1.2199
72	EMPTY	0.0136	1.1341
73	EMPTY	0.0151	1.2432
74	EMPTY	0.0144	1.1747
75	EMPTY	0.0131	1.0563
76	EMPTY	0.0148	1.1842
77	EMPTY	0.0145	1.1464
78	EMPTY	0.0144	1.1212
79	EMPTY	0.0140	1.0733
80	PAN020136	0.2594	2.7167
81	PAN050136	0.2410	1.2873
82	PAN070136	0.0839	0.7218
83	PAN080136	0.1068	1.6698
84	PAN090136	0.1267	2.0497
85	PAN100136	0.0305	0.5194
86	PAN105136	0.0870	2.8876
87	PAN110136	0.0122	0.4478
88	PAN115136	0.0275	0.9247
89	PAN120136	0.0381	1.1618
90	PAN125136	0.0336	1.2029
91	PAN130136	0.0274	0.9501
92	PAN120048	0.0686	1.1336
93	PAN130048	0.0702	1.0106
94	PAN120224	0.0167	0.2713
95	PAN130224	0.0549	0.9253
96	PAN120312	0.0442	0.7937
97	PAN130312	0.0839	1.4357
98	PAB000136	0.0009	0.0022
99	PAB100136	0.0165	0.0390
100	PAB125136	0.0266	0.0620

Test: May08_04

dif

Date: Tue May 8 11:14:56 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1123	0.2793
102	PRV000001	0.0317	0.2037
103	PSR000001	0.0293	0.0683
104	PFM000001	0.1300	1.3280
105	PAN000136	0.1098	0.1449
106	PFM000002	0.1138	1.1578
107	EMPTY	0.0000	0.0000
108	EMPTY	0.0845	1.0925
109	EMPTY	0.0002	5.4054
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.1914	0.1865
113	VPW000002	0.0351	0.0293
114	VPW000003	0.0039	0.0026
115	VPW000004	0.0742	0.0704
116	VPW000005	0.0390	0.0278
117	VPW000006	0.0547	0.0373
118	IPW000001	6.1305	1.1305
119	IPW000002	3.9415	0.3006
120	IPW000003	3.2762	0.2448
121	IPW000004	3.6035	0.9434
122	IPW000005	0.8008	0.3140
123	IPW000006	0.2344	0.0873
124	EMPTY	0.0022	11.2821
125	EMPTY	0.0008	5.9259
126	EMPTY	0.0037	25.5173
127	EMPTY	0.0002	1.1429
128	IHT000001	0.0547	0.0411
129	IHT000002	0.1133	0.0850
130	IHT000003	0.0156	0.0118
131	IHT000004	0.0547	0.0411
132	IHT000005	0.0196	0.0150
133	IHT000006	0.0273	0.0215
134	IHT000007	0.0273	0.0208
135	IHT000008	0.0235	0.0179
136	IHT000009	0.0820	0.0619
137	IHT000010	0.1093	0.0832
138	IHT000011	0.0312	0.0230
139	IHT000012	0.0664	0.0513
140	IHT000013	0.1172	0.1260
141	IHT000014	0.0586	0.0454
142	IHT000015	0.0586	0.0605
143	IHT000016	0.2071	0.2294
144	IHT000017	0.8359	0.7736
145	IHT000018	0.1133	0.1037
146	IHT000019	0.0976	0.0931
147	IHT000020	0.1524	0.1412
148	IHT000021	0.1172	8.2926
149	IHT000022	0.2579	0.2738
150	IHT000023	0.0742	0.0692
151	IHT000024	0.0547	0.0756
152	IHT000025	0.0977	0.0934
153	IHT000026	0.0546	0.0512
154	IHT000027	0.1446	0.1582
155	IHT000028	0.2930	0.3139

Test: May08_04 dif Date: Tue May 8 11:14:56 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0391	0.0366
157	IHT000030	0.0391	0.0360
158	IHT000031	0.0547	0.0508
159	IHT000032	0.0625	0.0573
160	IHT000033	0.0938	0.0861
161	IHT000034	0.1367	0.1434
162	IHT000035	0.1015	0.0808
163	IHT000036	0.0312	0.0333

Test: May08_05

sum1

Date: Tue May 8 11:36:42 1990

Page: 1

Velocity 1 = 5.8608 (ft/sec) (+/- 5.1187 %)
Velocity 2 = 5.8799 (ft/sec) (+/- 2.4059 %)
Pressure drop = -3.8534 (psi)
Tsat in = 267.8196 (deg F) Tsat out = 273.1501 (deg F)
Phi inner = 100.7505 (kBtu/hr-ft2) (+/- 1.4127 %)
Phi outer = 101.1033 (kBtu/hr-ft2) (+/- 1.6188 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.7220	72.1484	72.0248	1.4978e-01	1.9000e+00
1	TRF000002	72.1438	72.3559	72.2159	1.0147e-01	1.9000e+00
2	TFM000001	87.6811	88.6228	88.1837	1.9152e-01	1.9002e+00
3	TIN000001	87.7596	88.3901	88.0370	1.2511e-01	1.9002e+00
4	TRV000001	88.1015	88.8337	88.5326	1.9197e-01	1.9002e+00
5	TSR000001	125.2160	126.5325	125.8920	3.2944e-01	1.9021e+00
6	TAO020136	164.0847	165.0751	164.5562	2.2247e-01	1.9060e+00
7	TAO050136	166.6987	167.7790	167.2881	2.4622e-01	1.9064e+00
8	TAO070136	166.6845	167.7733	167.2746	2.3404e-01	1.9064e+00
9	TAO080136	190.4263	191.1037	190.8020	1.9001e-01	1.9098e+00
10	TAO090136	194.7852	195.6552	195.3305	2.0078e-01	1.9106e+00
11	TAO100136	191.6609	192.6297	192.0833	2.5276e-01	1.9100e+00
12	TAO105136	196.3357	197.3034	196.6957	2.0694e-01	1.9108e+00
13	TAO110136	201.7399	202.6013	202.1806	2.0814e-01	1.9117e+00
14	TAO115136	199.6383	200.5087	200.0872	2.2684e-01	1.9114e+00
15	TAO120136	209.0304	209.6984	209.3933	1.2796e-01	1.9130e+00
16	TAO125136	204.7767	205.8316	205.3480	2.4280e-01	1.9123e+00
17	TAO130136	200.7899	201.4553	201.1705	1.6135e-01	1.9116e+00
18	TAO120048	212.3388	213.0082	212.7444	1.6337e-01	1.9137e+00
19	TAO130048	208.4960	209.0698	208.7721	1.5422e-01	1.9129e+00
20	TAO120224	209.8142	210.9633	210.4310	2.0580e-01	1.9132e+00
21	TAO130224	199.2598	200.1233	199.6404	2.1457e-01	1.9113e+00
22	TAO120312	211.9654	212.9224	212.2756	2.0790e-01	1.9136e+00
23	TAO130312	210.0152	210.6850	210.3561	1.6645e-01	1.9132e+00
24	TRT020000	163.4240	164.3173	163.9048	1.9985e-01	1.9059e+00
25	TRT070000	184.6290	185.3155	184.8924	1.5262e-01	1.9089e+00
26	TRT100000	206.5057	207.1773	206.9049	1.5540e-01	1.9126e+00
27	TRT120000	211.5878	212.7346	212.0542	2.2237e-01	1.9135e+00
28	TRT125000	221.0222	221.8744	221.4996	1.7095e-01	1.9154e+00
29	TRT130000	212.9603	213.5329	213.2542	1.3753e-01	1.9138e+00
30	EMPTY	39.1464	39.8352	39.5184	2.2670e-01	1.9011e+00
31	TAF050136	119.1439	120.3669	119.7926	2.4780e-01	1.9017e+00
32	TAF070136	132.5749	133.6811	133.0304	2.7838e-01	1.9027e+00
33	TAF080136	190.1248	191.0893	190.5030	2.0223e-01	1.9098e+00
34	TAF090136	140.6440	141.6494	141.1510	2.9410e-01	1.9034e+00
35	TAF100136	150.5382	151.6387	151.0705	2.5118e-01	1.9044e+00
36	TAF105136	153.6571	154.5494	154.0622	2.4861e-01	1.9048e+00
37	TAF110136	170.7688	171.9462	171.4320	2.5355e-01	1.9069e+00
38	TAF115136	160.2240	161.2139	160.7113	2.2712e-01	1.9055e+00
39	TAF120136	184.6077	185.8710	185.2960	2.7454e-01	1.9089e+00
40	TAF125136	167.3074	168.2884	167.7664	2.9547e-01	1.9064e+00
41	TAF130136	170.3151	171.2004	170.8111	2.2816e-01	1.9068e+00
42	TAF120048	170.0339	171.1246	170.4977	2.5980e-01	1.9068e+00
43	TAF130048	176.2481	177.4231	176.7887	2.5047e-01	1.9077e+00
44	TAF120224	167.2854	168.5684	168.0397	2.8173e-01	1.9065e+00
45	TAF130224	172.2310	173.3185	172.7488	2.4586e-01	1.9071e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.2273	38.0158	1.7896e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5598	1.1361e-01	1.9011e+00
48	TAI130138	204.6311	205.8812	205.1969	2.6679e-01	1.9123e+00
49	TAI130226	202.6828	203.8345	203.3358	3.1554e-01	1.9119e+00
50	TAI130314	207.6950	208.7526	208.3450	2.6385e-01	1.9129e+00
51	TAI130042	204.3315	205.3897	204.8394	2.5567e-01	1.9122e+00
52	TRR130090	132.5879	137.9285	135.1247	1.4749e+00	1.9029e+00
53	TSI000001	47.0650	47.8225	47.5021	1.7636e-01	1.9003e+00
54	TSI000002	118.3065	119.9395	119.0497	4.0245e-01	1.9016e+00
55	TSO000001	46.1059	46.8680	46.4849	1.6505e-01	1.9004e+00
56	TSO000002	58.4154	59.3816	59.0039	2.1050e-01	1.9001e+00
57	TAF020136	98.0768	99.4354	98.8591	3.2164e-01	1.9006e+00
58	TAF120312	169.8445	171.2211	170.5609	3.4750e-01	1.9068e+00
59	TAF130312	184.0658	185.4270	184.7076	3.7934e-01	1.9088e+00
60	EMPTY	2.8906	2.9053	2.8961	3.6433e-03	0.0000e+00
61	EMPTY	2.8906	2.9004	2.8949	2.7267e-03	0.0000e+00
62	EMPTY	2.8906	2.8955	2.8926	2.4164e-03	0.0000e+00
63	EMPTY	2.8906	2.9004	2.8953	1.3811e-03	0.0000e+00
64	EMPTY	1.3818	1.3867	1.3866	6.9053e-04	0.0000e+00
65	EMPTY	1.4014	1.4014	1.4014	0.0000e+00	0.0000e+00
66	EMPTY	1.4111	1.4111	1.4111	0.0000e+00	0.0000e+00
67	EMPTY	1.4209	1.4258	1.4231	2.4583e-03	0.0000e+00
68	EMPTY	1.4307	1.4355	1.4309	9.6655e-04	0.0000e+00
69	EMPTY	1.4404	1.4453	1.4444	1.8950e-03	0.0000e+00
70	EMPTY	1.4502	1.4551	1.4549	9.6655e-04	0.0000e+00
71	EMPTY	1.4697	1.4746	1.4734	2.1065e-03	0.0000e+00
72	EMPTY	1.4795	1.4844	1.4813	2.3941e-03	0.0000e+00
73	EMPTY	1.4893	1.4990	1.4942	1.2041e-03	0.0000e+00
74	EMPTY	1.4990	1.5088	1.5040	1.8429e-03	0.0000e+00
75	EMPTY	1.5088	1.5186	1.5168	2.5648e-03	0.0000e+00
76	EMPTY	1.5234	1.5283	1.5258	2.4642e-03	0.0000e+00
77	EMPTY	1.5381	1.5430	1.5398	2.3675e-03	0.0000e+00
78	EMPTY	1.5527	1.5576	1.5573	1.1714e-03	0.0000e+00
79	EMPTY	1.5723	1.5820	1.5764	2.0598e-03	0.0000e+00
80	PAN020136	-15.6108	-10.8043	-12.6231	1.4564e+00	8.7057e-01
81	PAN050136	-27.1233	-26.0552	-26.5893	2.6919e-01	1.6813e+00
82	PAN070136	-17.2510	-16.7169	-16.9900	1.3880e-01	8.7104e-01
83	PAN080136	-9.5042	-9.1228	-9.3425	1.0750e-01	8.7031e-01
84	PAN090136	-8.3452	-8.0401	-8.1560	8.0447e-02	8.7024e-01
85	PAN100136	-8.7238	-8.2661	-8.5148	9.2238e-02	8.7026e-01
86	PAN105136	-4.4228	-4.1176	-4.3084	6.4018e-02	8.7007e-01
87	PAN110136	-4.1924	-3.9635	-4.0627	5.6107e-02	8.7006e-01
88	PAN115136	-4.3259	-3.9445	-4.1566	9.0259e-02	8.7006e-01
89	PAN120136	-5.1989	-4.8175	-5.0189	7.8231e-02	8.7009e-01
90	PAN125136	-3.9621	-3.6569	-3.8110	6.9771e-02	8.7005e-01
91	PAN130136	-4.4448	-4.0634	-4.2785	8.1109e-02	8.7007e-01
92	PAN120048	-9.1933	-8.8119	-8.9904	8.6660e-02	8.7029e-01
93	PAN130048	-9.5220	-9.1405	-9.2931	9.9892e-02	8.7031e-01
94	PAN120224	-9.2754	-8.8177	-9.0435	9.8648e-02	8.7029e-01
95	PAN130224	-8.5653	-8.1075	-8.3349	1.0396e-01	8.7025e-01
96	PAN120312	-8.3716	-8.0665	-8.2282	8.1036e-02	8.7024e-01
97	PAN130312	-8.5125	-7.9785	-8.2638	1.0546e-01	8.7025e-01
98	PAB000136	39.9942	40.4519	40.3036	9.5467e-02	5.8869e-01
99	PAB100136	43.1264	43.3095	43.2106	4.4699e-02	5.8997e-01
100	PAB125136	43.9600	44.1431	44.0469	4.8277e-02	5.9036e-01

Test: May08_05

sum1

Date: Tue May 8 11:36:42 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4812	40.3357	40.0037	1.6734e-01	7.5664e-01
102	PRV0000001	15.3654	15.4875	15.4680	4.5206e-02	7.5100e-01
103	PSR0000001	44.0965	44.3407	44.1796	6.2585e-02	7.5809e-01
104	PFM0000001	5.0319	5.3981	5.1674	9.4748e-02	5.0017e-01
105	PAN000136	-113.1644	-102.1781	-106.6824	2.4016e+00	4.9272e+00
106	PFM0000002	5.0853	5.2866	5.2017	4.5026e-02	2.0042e-01
107	EMPTY	-0.0049	0.0049	-0.0031	3.0819e-03	0.0000e+00
108	EMPTY	-8.5059	-7.7051	-8.1188	2.3293e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0028	2.6267e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
112	VPW0000001	102.3400	102.7306	102.4572	1.2478e-01	1.0169e+00
113	VPW0000002	119.7116	120.1022	119.9147	7.8523e-02	1.0834e+00
114	VPW0000003	147.7426	148.3286	148.0786	1.3111e-01	1.2023e+00
115	VPW0000004	105.1006	105.8819	105.4600	1.6441e-01	1.0279e+00
116	VPW0000005	139.9940	140.5799	140.2050	1.5201e-01	1.1678e+00
117	VPW0000006	146.7398	147.1304	146.8921	1.0654e-01	1.1970e+00
118	IPW0000001	558.2203	566.0297	562.0858	1.6961e+00	9.2373e+00
119	IPW0000002	1279.8079	1285.6616	1282.5005	1.9667e+00	1.2972e+01
120	IPW0000003	1313.6250	1319.4750	1315.3018	1.4746e+00	1.3175e+01
121	IPW0000004	384.6341	387.0755	385.4837	4.6070e-01	3.6433e+00
122	IPW0000005	253.6649	255.1296	254.2509	3.9455e-01	2.8345e+00
123	IPW0000006	265.9912	267.4560	266.8701	3.8206e-01	2.9060e+00
124	EMPTY	-0.0293	-0.0146	-0.0225	4.0673e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.3428e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0196	3.4863e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0168	2.9856e-03	0.0000e+00
128	IHT0000001	131.456	133.9956	132.7183	5.6111e-01	4.3095e+00
129	IHT0000002	132.2491	134.5929	133.1827	5.1944e-01	4.3109e+00
130	IHT0000003	131.1824	133.7214	132.1981	5.1145e-01	4.3079e+00
131	IHT0000004	131.4829	134.9985	132.7954	6.2020e-01	4.3097e+00
132	IHT0000005	129.0640	131.6031	130.2163	5.5978e-01	4.3018e+00
133	IHT0000006	125.5521	127.7006	126.4779	5.6194e-01	4.2906e+00
134	IHT0000007	129.8114	131.9599	130.9404	5.4289e-01	4.3040e+00
135	IHT0000008	130.2171	132.1702	131.1351	5.1335e-01	4.3046e+00
136	IHT0000009	130.8819	133.4210	132.0967	5.2983e-01	4.3075e+00
137	IHT0000010	130.3260	132.6698	131.2557	5.5322e-01	4.3050e+00
138	IHT0000011	134.5515	137.0906	135.5008	5.2498e-01	4.3181e+00
139	IHT0000012	128.2489	130.9833	129.3388	5.1764e-01	4.2992e+00
140	IHT0000013	91.8983	94.4373	92.9256	5.0038e-01	4.2040e+00
141	IHT0000014	128.0086	130.3523	128.9227	5.0291e-01	4.2979e+00
142	IHT0000015	95.8984	98.0469	96.7578	5.2348e-01	4.2126e+00
143	IHT0000016	89.0061	91.1546	89.8929	4.8200e-01	4.1974e+00
144	IHT0000017	105.4199	107.5683	106.5137	5.0223e-01	4.2361e+00
145	IHT0000018	107.6210	109.9647	108.9217	5.2141e-01	4.2422e+00
146	IHT0000019	103.6020	105.7505	104.6802	4.6895e-01	4.2315e+00
147	IHT0000020	106.6031	108.3609	107.5874	4.3398e-01	4.2388e+00
148	IHT0000021	-2.9485	-0.6047	-1.7493	5.2941e-01	4.1000e+00
149	IHT0000022	92.7547	94.7078	93.6180	4.0834e-01	4.2055e+00
150	IHT0000023	105.8105	107.9590	106.8730	4.5363e-01	4.2370e+00
151	IHT0000024	71.1238	73.0769	72.0144	3.7881e-01	4.1628e+00
152	IHT0000025	103.3128	105.2659	104.3167	4.0242e-01	4.2306e+00
153	IHT0000026	105.2810	107.0388	106.3356	3.9656e-01	4.2356e+00
154	IHT0000027	89.8550	91.6128	91.0152	4.0895e-01	4.1998e+00
155	IHT0000028	91.7217	94.0655	92.8780	5.5079e-01	4.2039e+00

Test: May08_05 sum1 Date: Tue May 8 11:36:42 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4462	107.9853	106.5986	5.7892e-01	4.2363e+00
157	IHT000030	107.2416	110.3666	108.5581	6.1106e-01	4.2413e+00
158	IHT000031	106.3815	108.9205	107.5142	6.0102e-01	4.2386e+00
159	IHT000032	107.5759	110.5056	108.8259	5.5102e-01	4.2420e+00
160	IHT000033	107.5796	110.3140	108.7788	5.4678e-01	4.2418e+00
161	IHT000034	94.3585	96.1163	95.1006	3.7226e-01	4.2088e+00
162	IHT000035	124.3803	126.7240	125.2436	4.3956e-01	4.2870e+00
163	IHT000036	92.9725	94.7303	93.6287	4.1901e-01	4.2055e+00

Velocity 1 = 5.8576 (ft/sec) (+/- 5.1236 %)
Velocity 2 = 5.8587 (ft/sec) (+/- 2.4150 %)
Pressure drop = -3.8722 (psi)
Tsat in = 267.7531 (deg F) Tsat out = 273.0609 (deg F)
Phi inner = 101.9537 (kBtu/hr-ft2) (+/- 1.4094 %)
Phi outer = 101.6937 (kBtu/hr-ft2) (+/- 1.6177 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	71.7220	72.3616	72.0546	1.5626e-01	1.9000e+00
1	TRF000002	72.1438	72.5679	72.2541	1.1528e-01	1.9000e+00
2	TFM000001	87.4718	88.2056	87.8740	2.1200e-01	1.9002e+00
3	TIN000001	87.4446	88.0747	87.7933	1.4306e-01	1.9002e+00
4	TRV000001	87.8928	88.6252	88.2908	1.9686e-01	1.9002e+00
5	TSR000001	126.0243	127.5440	126.7181	3.6604e-01	1.9022e+00
6	TAO020136	164.0847	165.1744	164.6632	2.5654e-01	1.9060e+00
7	TAO050136	166.9922	168.0737	167.4728	2.2156e-01	1.9064e+00
8	TAO070136	167.4768	168.6639	168.0348	2.6574e-01	1.9065e+00
9	TAO080136	190.8121	191.3939	191.1185	1.5671e-01	1.9099e+00
10	TAO090136	195.2684	196.2341	195.7514	2.1194e-01	1.9106e+00
11	TAO100136	191.9520	193.0168	192.5636	1.9510e-01	1.9101e+00
12	TAO105136	196.7228	197.5938	197.1408	2.1627e-01	1.9109e+00
13	TAO110136	202.1213	203.2673	202.6841	2.2973e-01	1.9118e+00
14	TAO115136	200.1222	201.2828	200.5940	2.6908e-01	1.9115e+00
15	TAO120136	209.6004	210.1743	209.8798	1.5982e-01	1.9131e+00
16	TAO125136	205.3511	206.5020	205.8083	2.5081e-01	1.9124e+00
17	TAO130136	201.3591	202.0279	201.6946	1.6024e-01	1.9116e+00
18	TAO120048	212.8163	213.5809	213.2066	1.8596e-01	1.9138e+00
19	TAO130048	208.9740	209.8346	209.3487	1.6485e-01	1.9130e+00
20	TAO120224	210.5802	211.6335	211.0551	2.0283e-01	1.9134e+00
21	TAO130224	199.5479	200.7933	200.1567	2.4916e-01	1.9114e+00
22	TAO120312	212.2528	213.2096	212.7081	2.2838e-01	1.9137e+00
23	TAO130312	210.4933	211.1629	210.8107	1.6770e-01	1.9133e+00
24	TRT020000	163.1261	164.6150	163.8332	2.9445e-01	1.9059e+00
25	TRT070000	184.8258	185.6094	185.2062	1.8943e-01	1.9089e+00
26	TRT100000	206.8888	207.6564	207.3339	1.6626e-01	1.9127e+00
27	TRT120000	212.0650	212.9255	212.4746	2.0251e-01	1.9136e+00
28	TRT125000	221.6841	222.5359	222.0925	2.0957e-01	1.9155e+00
29	TRT130000	213.4361	214.0097	213.7878	1.3563e-01	1.9139e+00
30	EMPTY	39.1464	39.8352	39.5368	2.4212e-01	1.9011e+00
31	TAF050136	119.2461	120.5715	119.8417	2.7281e-01	1.9017e+00
32	TAF070136	132.5762	133.7840	133.1756	2.6770e-01	1.9027e+00
33	TAF080136	190.3192	191.3792	190.8614	2.2175e-01	1.9098e+00
34	TAF090136	141.4486	142.5527	142.0026	2.6469e-01	1.9035e+00
35	TAF100136	150.6381	151.8390	151.3746	2.5062e-01	1.9045e+00
36	TAF105136	153.7572	155.0420	154.3273	2.7931e-01	1.9048e+00
37	TAF110136	171.3572	172.3382	171.8596	2.2568e-01	1.9070e+00
38	TAF115136	160.5221	161.7096	161.0756	2.7132e-01	1.9056e+00
39	TAF120136	185.1911	186.7445	185.7192	2.8833e-01	1.9090e+00
40	TAF125136	167.4043	168.9726	168.1506	2.9098e-01	1.9065e+00
41	TAF130136	170.7087	171.5931	171.0901	2.0212e-01	1.9069e+00
42	TAF120048	170.3306	171.6193	170.9140	2.8985e-01	1.9068e+00
43	TAF130048	176.7376	177.7170	177.1528	2.2425e-01	1.9077e+00
44	TAF120224	167.5819	169.4555	168.3751	3.7650e-01	1.9065e+00
45	TAF130224	172.4289	173.9109	173.1283	3.0531e-01	1.9072e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	37.9974	2.1788e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5001	1.1558e-01	1.9011e+00
48	TAI130138	205.1123	206.5540	205.6697	3.0329e-01	1.9124e+00
49	TAI130226	203.5463	204.6017	203.8994	2.4384e-01	1.9120e+00
50	TAI130314	208.3682	209.6171	208.9677	2.6437e-01	1.9130e+00
51	TAI130042	204.7163	206.0624	205.4202	3.0433e-01	1.9123e+00
52	TRR130090	128.1377	136.2178	131.8390	1.8322e+00	1.9026e+00
53	TSI000001	47.2805	47.9313	47.5887	1.5214e-01	1.9003e+00
54	TSI000002	119.3269	121.8751	120.4895	5.7138e-01	1.9017e+00
55	TSO000001	46.2148	46.9768	46.5153	1.9246e-01	1.9004e+00
56	TSO000002	58.6300	59.3816	59.0469	2.0977e-01	1.9001e+00
57	TAF020136	97.8681	99.4354	98.7586	3.0098e-01	1.9006e+00
58	TAF120312	170.0422	171.7128	170.7968	3.7754e-01	1.9068e+00
59	TAF130312	183.6768	185.8142	185.0535	4.7612e-01	1.9089e+00
60	EMPTY	2.8906	2.9150	2.9041	5.6290e-03	0.0000e+00
61	EMPTY	2.8955	2.9150	2.9037	4.4599e-03	0.0000e+00
62	EMPTY	2.8955	2.9102	2.9022	3.6765e-03	0.0000e+00
63	EMPTY	2.9004	2.9102	2.9061	2.8523e-03	0.0000e+00
64	EMPTY	1.3867	1.3965	1.3905	2.2689e-03	0.0000e+00
65	EMPTY	1.4014	1.4063	1.4044	2.3941e-03	0.0000e+00
66	EMPTY	1.4111	1.4160	1.4158	9.6655e-04	0.0000e+00
67	EMPTY	1.4258	1.4307	1.4271	2.1635e-03	0.0000e+00
68	EMPTY	1.4355	1.4404	1.4356	6.9053e-04	0.0000e+00
69	EMPTY	1.4404	1.4502	1.4495	1.9754e-03	0.0000e+00
70	EMPTY	1.4551	1.4600	1.4599	6.9053e-04	0.0000e+00
71	EMPTY	1.4746	1.4844	1.4785	2.2058e-03	0.0000e+00
72	EMPTY	1.4844	1.4893	1.4848	1.3381e-03	0.0000e+00
73	EMPTY	1.4941	1.5039	1.4990	9.8648e-04	0.0000e+00
74	EMPTY	1.5088	1.5137	1.5089	6.9053e-04	0.0000e+00
75	EMPTY	1.5186	1.5234	1.5225	1.9730e-03	0.0000e+00
76	EMPTY	1.5283	1.5332	1.5297	2.2146e-03	0.0000e+00
77	EMPTY	1.5430	1.5479	1.5446	2.3365e-03	0.0000e+00
78	EMPTY	1.5625	1.5625	1.5625	0.0000e+00	0.0000e+00
79	EMPTY	1.5771	1.5820	1.5819	6.9053e-04	0.0000e+00
80	PAN020136	-15.6108	-11.1858	-12.5972	1.1336e+00	8.7057e-01
81	PAN050136	-26.9707	-26.0552	-26.5221	2.1001e-01	1.6813e+00
82	PAN070136	-17.3273	-16.8695	-17.0389	1.1461e-01	8.7104e-01
83	PAN080136	-9.5805	-9.1228	-9.3471	1.0038e-01	8.7031e-01
84	PAN090136	-8.2689	-7.8875	-8.1453	8.7043e-02	8.7024e-01
85	PAN100136	-8.7238	-8.3424	-8.5514	7.9810e-02	8.7026e-01
86	PAN105136	-4.4991	-4.1176	-4.2962	7.9511e-02	8.7007e-01
87	PAN110136	-4.2687	-3.9635	-4.0810	6.2058e-02	8.7006e-01
88	PAN115136	-4.3259	-4.0208	-4.1673	6.5104e-02	8.7006e-01
89	PAN120136	-5.1989	-4.4360	-4.8297	2.2933e-01	8.7008e-01
90	PAN125136	-4.3435	-3.7332	-3.9895	1.8863e-01	8.7006e-01
91	PAN130136	-4.3685	-4.0634	-4.2190	8.9824e-02	8.7006e-01
92	PAN120048	-9.1933	-8.7356	-8.9629	9.8080e-02	8.7029e-01
93	PAN130048	-9.5220	-9.1405	-9.3083	9.1189e-02	8.7031e-01
94	PAN120224	-9.2754	-8.8177	-9.0267	8.4157e-02	8.7029e-01
95	PAN130224	-8.5653	-8.1838	-8.3593	8.4775e-02	8.7025e-01
96	PAN120312	-8.3716	-7.9902	-8.1794	9.0193e-02	8.7024e-01
97	PAN130312	-8.5125	-8.0548	-8.2730	9.8708e-02	8.7025e-01
98	PAB000136	40.0400	40.4062	40.2588	7.3574e-02	5.8867e-01
99	PAB100136	43.0348	43.2179	43.1410	4.2822e-02	5.8994e-01
100	PAB125136	43.9142	44.0515	43.9819	4.0566e-02	5.9033e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8474	40.3357	40.1843	1.1182e-01	7.5670e-01
102	PRV000001	15.3654	15.4875	15.4045	5.7521e-02	7.5099e-01
103	PSR000001	43.9745	44.2186	44.1087	4.4460e-02	7.5806e-01
104	PFM000001	4.9403	5.3981	5.1619	9.9761e-02	5.0017e-01
105	PAN000136	-112.7066	-104.0091	-107.2043	1.7363e+00	4.9273e+00
106	PFM000002	5.0517	5.2698	5.1638	5.4918e-02	2.0042e-01
107	EMPTY	-0.0049	0.0049	-0.0038	2.6635e-03	0.0000e+00
108	EMPTY	-8.4863	-7.9102	-8.1857	1.7068e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0020	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8082e-03	0.0000e+00
112	VPW000001	102.3400	102.9259	102.5783	1.1361e-01	1.0173e+00
113	VPW000002	119.7116	120.2975	119.9850	1.1161e-01	1.0837e+00
114	VPW000003	147.7426	148.3286	148.0630	1.4095e-01	1.2022e+00
115	VPW000004	105.2960	105.6866	105.4717	1.3235e-01	1.0279e+00
116	VPW000005	139.9940	140.3846	140.2206	1.2701e-01	1.1679e+00
117	VPW000006	146.7398	147.1304	146.8999	1.2901e-01	1.1971e+00
118	IPW000001	546.5062	550.4109	548.1853	1.2479e+00	9.1850e+00
119	IPW000002	1307.1256	1312.9794	1309.9353	1.3746e+00	1.3142e+01
120	IPW000003	1331.1750	1337.0250	1333.3978	1.3072e+00	1.3288e+01
121	IPW000004	381.2162	382.6810	382.1634	3.1828e-01	3.6215e+00
122	IPW000005	253.6649	255.1296	254.2313	3.9897e-01	2.8344e+00
123	IPW000006	266.9677	268.4326	267.7783	3.5030e-01	2.9112e+00
124	EMPTY	-0.0244	-0.0146	-0.0196	3.3439e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.3428e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0148	3.4116e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0182	3.5623e-03	0.0000e+00
128	IHT000001	131.8472	134.1909	132.8941	5.6876e-01	4.3100e+00
129	IHT000002	132.0538	134.5929	133.2100	5.2916e-01	4.3110e+00
130	IHT000003	131.1824	133.5261	132.1981	5.3379e-01	4.3079e+00
131	IHT000004	131.4829	134.2172	132.7602	6.1411e-01	4.3096e+00
132	IHT000005	129.0640	131.9937	130.3257	6.2041e-01	4.3021e+00
133	IHT000006	125.3568	128.0912	126.5209	6.1506e-01	4.2908e+00
134	IHT000007	129.8114	132.9364	131.0615	6.0746e-01	4.3044e+00
135	IHT000008	130.0218	133.1468	131.1546	5.4104e-01	4.3047e+00
136	IHT000009	131.0772	133.8116	132.1475	5.1333e-01	4.3077e+00
137	IHT000010	130.3260	132.2792	131.2479	4.6695e-01	4.3050e+00
138	IHT000011	134.7468	136.7000	135.4618	4.8103e-01	4.3180e+00
139	IHT000012	128.6396	130.3974	129.3466	5.0515e-01	4.2992e+00
140	IHT000013	92.0936	94.0467	92.9647	4.3800e-01	4.2041e+00
141	IHT000014	128.2039	130.3523	129.1102	4.3182e-01	4.2985e+00
142	IHT000015	96.0937	98.4375	96.8984	4.3698e-01	4.2129e+00
143	IHT000016	89.3968	91.5452	90.1663	4.3119e-01	4.1980e+00
144	IHT000017	107.1777	109.5215	108.3809	5.8175e-01	4.2408e+00
145	IHT000018	108.4022	110.7460	109.4569	5.6082e-01	4.2436e+00
146	IHT000019	104.1880	106.1411	105.0903	4.1552e-01	4.2325e+00
147	IHT000020	107.3843	109.1421	108.0562	4.0078e-01	4.2400e+00
148	IHT000021	-2.1672	0.1765	-1.1711	4.6563e-01	4.1000e+00
149	IHT000022	93.5359	95.0984	94.1258	3.5181e-01	4.2067e+00
150	IHT000023	106.5918	107.9590	107.3535	3.6003e-01	4.2382e+00
151	IHT000024	71.7097	73.0769	72.4050	3.2096e-01	4.1634e+00
152	IHT000025	103.8988	105.4613	104.7464	3.8985e-01	4.2317e+00
153	IHT000026	106.0622	107.6247	106.7497	4.1430e-01	4.2367e+00
154	IHT000027	90.4410	92.3941	91.4214	4.4554e-01	4.2007e+00
155	IHT000028	92.1124	94.8467	93.2178	6.2963e-01	4.2046e+00

Test: May08_05

sum2

Date: Tue May 8 11:36:42 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	106.0322	108.1806	106.9697	5.9712e-01	4.2372e+00
157	IHT000030	107.8275	110.1713	108.9526	5.9655e-01	4.2423e+00
158	IHT000031	106.7721	109.1158	107.8540	6.1284e-01	4.2395e+00
159	IHT000032	107.9665	110.3102	109.1462	6.1758e-01	4.2428e+00
160	IHT000033	107.9703	110.3140	109.1069	6.0578e-01	4.2427e+00
161	IHT000034	94.3585	96.5069	95.3350	5.0223e-01	4.2094e+00
162	IHT000035	124.7709	126.5287	125.4506	4.9794e-01	4.2876e+00
163	IHT000036	92.9725	94.9256	93.8592	4.7549e-01	4.2061e+00

Test: May08_05 dif Date: Tue May 8 11:36:42 1990 Page: 1

Velocity 1 = 0.003200 (ft/sec)

Velocity 2 = 0.021200 (ft/sec)

Pressure Drop = 0.018800 (psi)

Tsat in = 0.066498 (deg F) Tsat out = 0.089172 (deg F)

Phi inner = 1.203194 (kBtu/hr-ft2) Phi outer = 0.590401 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0298	0.0414
1	TRF000002	0.0382	0.0529
2	TFM000001	0.3097	0.3512
3	TIN000001	0.2437	0.2768
4	TRV000001	0.2418	0.2731
5	TSR000001	0.8261	0.6562
6	TAO020136	0.1070	0.0650
7	TAO050136	0.1847	0.1104
8	TAO070136	0.7602	0.4545
9	TAO080136	0.3165	0.1659
10	TAO090136	0.4209	0.2155
11	TAO100136	0.4803	0.2500
12	TAO105136	0.4451	0.2263
13	TAO110136	0.5035	0.2490
14	TAO115136	0.5068	0.2533
15	TAO120136	0.4865	0.2323
16	TAO125136	0.4603	0.2242
17	TAO130136	0.5241	0.2605
18	TAO120048	0.4622	0.2173
19	TAO130048	0.5766	0.2762
20	TAO120224	0.6241	0.2966
21	TAO130224	0.5163	0.2586
22	TAO120312	0.4325	0.2037
23	TAO130312	0.4546	0.2161
24	TRT020000	0.0716	0.0437
25	TRT070000	0.3138	0.1697
26	TRT100000	0.4290	0.2073
27	TRT120000	0.4204	0.1982
28	TRT125000	0.5929	0.2677
29	TRT130000	0.5336	0.2502
30	EMPTY	0.0184	0.0466
31	TAF050136	0.0491	0.0410
32	TAF070136	0.1452	0.1091
33	TAF080136	0.3584	0.1881
34	TAF090136	0.8516	0.6033
35	TAF100136	0.3041	0.2013
36	TAF105136	0.2651	0.1721
37	TAF110136	0.4276	0.2494
38	TAF115136	0.3643	0.2267
39	TAF120136	0.4232	0.2284
40	TAF125136	0.3842	0.2290
41	TAF130136	0.2790	0.1633
42	TAF120048	0.4163	0.2442
43	TAF130048	0.3641	0.2060
44	TAF120224	0.3354	0.1996
45	TAF130224	0.3795	0.2197

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0484
47	EMPTY	0.0597	0.1509
48	TAI130138	0.4728	0.2304
49	TAI130226	0.5636	0.2772
50	TAI130314	0.6227	0.2989
51	TAI130042	0.5808	0.2835
52	TRR130090	3.2857	2.4316
53	TSI000001	0.0866	0.1823
54	TSI000002	1.4398	1.2094
55	TSO000001	0.0304	0.0654
56	TSO000002	0.0430	0.0729
57	TAF020136	0.1005	0.1017
58	TAF120312	0.2359	0.1383
59	TAF130312	0.3459	0.1873
60	EMPTY	0.0080	0.2762
61	EMPTY	0.0088	0.3040
62	EMPTY	0.0096	0.3319
63	EMPTY	0.0108	0.3730
64	EMPTY	0.0039	0.2813
65	EMPTY	0.0030	0.2141
66	EMPTY	0.0047	0.3331
67	EMPTY	0.0040	0.2811
68	EMPTY	0.0047	0.3285
69	EMPTY	0.0051	0.3531
70	EMPTY	0.0050	0.3437
71	EMPTY	0.0051	0.3461
72	EMPTY	0.0035	0.2363
73	EMPTY	0.0048	0.3212
74	EMPTY	0.0049	0.3258
75	EMPTY	0.0057	0.3758
76	EMPTY	0.0039	0.2556
77	EMPTY	0.0048	0.3117
78	EMPTY	0.0052	0.3339
79	EMPTY	0.0055	0.3489
80	PAN020136	0.0259	0.2052
81	PAN050136	0.0672	0.2527
82	PAN070136	0.0489	0.2878
83	PAN080136	0.0046	0.0492
84	PAN090136	0.0107	0.1312
85	PAN100136	0.0366	0.4298
86	PAN105136	0.0122	0.2832
87	PAN110136	0.0183	0.4504
88	PAN115136	0.0107	0.2574
89	PAN120136	0.1892	3.7697
90	PAN125136	0.1785	4.6838
91	PAN130136	0.0595	1.3907
92	PAN120048	0.0275	0.3059
93	PAN130048	0.0152	0.1636
94	PAN120224	0.0168	0.1858
95	PAN130224	0.0244	0.2927
96	PAN120312	0.0488	0.5931
97	PAN130312	0.0092	0.1113
98	PAB000136	0.0448	0.1112
99	PAB100136	0.0696	0.1611
100	PAB125136	0.0650	0.1476

#	Name	Abs Diff	%Diff
101	PIN000001	0.1806	0.4515
102	PRV000001	0.0635	0.4105
103	PSR000001	0.0709	0.1605
104	PFM000001	0.0055	0.1064
105	PAN000136	0.5219	0.4892
106	PFM000002	0.0379	0.7286
107	EMPTY	0.0007	22.5806
108	EMPTY	0.0669	0.8240
109	EMPTY	0.0008	28.5714
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	100.0000
112	VPW000001	0.1211	0.1182
113	VPW000002	0.0703	0.0586
114	VPW000003	0.0156	0.0105
115	VPW000004	0.0117	0.0111
116	VPW000005	0.0156	0.0111
117	VPW000006	0.0078	0.0053
118	IPW000001	13.9005	2.4730
119	IPW000002	27.4348	2.1392
120	IPW000003	18.0961	1.3758
121	IPW000004	3.3203	0.8613
122	IPW000005	0.0196	0.0077
123	IPW000006	0.9082	0.3403
124	EMPTY	0.0029	12.8889
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0048	24.4898
127	EMPTY	0.0014	8.3333
128	IHT000001	0.1758	0.1325
129	IHT000002	0.0273	0.0205
130	IHT000003	0.0000	0.0000
131	IHT000004	0.0352	0.0265
132	IHT000005	0.1094	0.0840
133	IHT000006	0.0430	0.0340
134	IHT000007	0.1211	0.0925
135	IHT000008	0.0195	0.0149
136	IHT000009	0.0508	0.0385
137	IHT000010	0.0078	0.0060
138	IHT000011	0.0390	0.0288
139	IHT000012	0.0078	0.0060
140	IHT000013	0.0391	0.0421
141	IHT000014	0.1875	0.1454
142	IHT000015	0.1406	0.1453
143	IHT000016	0.2734	0.3041
144	IHT000017	1.8672	1.7530
145	IHT000018	0.5352	0.4914
146	IHT000019	0.4101	0.3918
147	IHT000020	0.4688	0.4357
148	IHT000021	0.5782	33.0532
149	IHT000022	0.5078	0.5424
150	IHT000023	0.4805	0.4496
151	IHT000024	0.3906	0.5424
152	IHT000025	0.4297	0.4119
153	IHT000026	0.4141	0.3894
154	IHT000027	0.4062	0.4463
155	IHT000028	0.3398	0.3659

Test: May08_05 dif Date: Tue May 8 11:36:42 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.3711	0.3481
157	IHT000030	0.3945	0.3634
158	IHT000031	0.3398	0.3160
159	IHT000032	0.3203	0.2943
160	IHT000033	0.3281	0.3016
161	IHT000034	0.2344	0.2465
162	IHT000035	0.2070	0.1653
163	IHT000036	0.2305	0.2462

Test: May08_06

sum1

Date: Tue May 8 12:03:43 1990

Page: 1

Velocity 1 = 3.9540 (ft/sec) (+/- 10.9211 %)
Velocity 2 = 3.9922 (ft/sec) (+/- 4.1601 %)
Pressure drop = -4.6249 (psi)
Tsats in = 268.0347 (deg F) Tsats out = 274.3646 (deg F)
Phi inner = 100.5679 (kBtu/hr-ft2) (+/- 1.4133 %)
Phi outer = 100.8367 (kBtu/hr-ft2) (+/- 1.6198 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.1484	72.7878	72.5747	1.7752e-01	1.9000e+00
1	TRF000002	72.7799	72.9918	72.9028	1.0567e-01	1.9000e+00
2	TFM000001	87.2637	88.1022	87.6391	1.8579e-01	1.9002e+00
3	TIN000001	87.1286	88.0743	87.5427	2.0739e-01	1.9002e+00
4	TRV000001	87.6878	88.5242	88.1167	1.9731e-01	1.9002e+00
5	TSR000001	128.0524	130.5775	129.7631	5.8121e-01	1.9024e+00
6	TAO020136	190.7807	192.0441	191.3891	2.8579e-01	1.9099e+00
7	TAO050136	196.0434	197.3904	196.7800	3.0155e-01	1.9108e+00
8	TAO070136	192.9849	194.4424	193.7254	2.8715e-01	1.9103e+00
9	TAO080136	227.6763	228.6170	228.1625	1.6465e-01	1.9168e+00
10	TAO090136	234.3352	235.3714	234.9402	2.3840e-01	1.9182e+00
11	TAO100136	231.8909	234.4362	232.8962	6.5483e-01	1.9178e+00
12	TAO105136	238.6194	240.2196	239.4272	3.6234e-01	1.9192e+00
13	TAO110136	245.8206	247.6751	246.6492	4.2155e-01	1.9209e+00
14	TAO115136	244.3640	246.8073	245.4639	6.2875e-01	1.9206e+00
15	TAO120136	255.9205	257.3997	256.8730	3.5148e-01	1.9234e+00
16	TAO125136	250.9887	253.2222	251.8994	5.3665e-01	1.9222e+00
17	TAO130136	246.7811	248.0733	247.2220	2.9059e-01	1.9210e+00
18	TAO120048	260.7701	262.0681	261.4287	2.9556e-01	1.9245e+00
19	TAO130048	256.3503	256.9075	256.6381	1.6051e-01	1.9233e+00
20	TAO120224	258.1887	259.3966	258.7518	2.6771e-01	1.9239e+00
21	TAO130224	244.4829	247.5456	246.1790	7.1609e-01	1.9208e+00
22	TAO120312	260.9666	262.2658	261.6292	2.7236e-01	1.9246e+00
23	TAO130312	258.0790	259.0075	258.6974	1.8805e-01	1.9238e+00
24	TRT020000	190.3673	191.3411	190.7668	2.3703e-01	1.9098e+00
25	TRT070000	221.2602	222.3133	221.6913	2.6015e-01	1.9154e+00
26	TRT100000	251.0646	251.9034	251.5138	2.0688e-01	1.9221e+00
27	TRT120000	262.1786	263.2898	262.6766	2.5099e-01	1.9248e+00
28	TRT125000	273.6013	274.4266	274.0140	2.0722e-01	1.9278e+00
29	TRT130000	260.8262	261.6598	261.2177	1.8350e-01	1.9245e+00
30	EMPTY	39.1464	39.8352	39.6011	2.1500e-01	1.9011e+00
31	TAF050136	133.1408	135.3604	134.2009	4.3660e-01	1.9028e+00
32	TAF070136	153.1590	154.7475	153.8211	3.8890e-01	1.9047e+00
33	TAF080136	226.2809	229.6600	227.8658	8.5042e-01	1.9167e+00
34	TAF090136	161.4840	162.8684	162.2253	3.5927e-01	1.9057e+00
35	TAF100136	180.6352	182.9838	181.6199	5.3330e-01	1.9084e+00
36	TAF105136	184.9340	187.0609	185.8957	5.6261e-01	1.9090e+00
37	TAF110136	207.6621	211.5774	209.2355	1.0040e+00	1.9130e+00
38	TAF115136	194.8475	199.2856	196.1205	1.2358e+00	1.9107e+00
39	TAF120136	226.8161	230.4000	228.7435	8.1729e-01	1.9169e+00
40	TAF125136	205.4972	209.1189	206.6355	8.5159e-01	1.9125e+00
41	TAF130136	209.1868	213.7708	210.4430	8.9076e-01	1.9132e+00
42	TAF120048	208.5027	211.3003	209.6857	6.1709e-01	1.9131e+00
43	TAF130048	217.7513	220.1290	218.7732	4.8227e-01	1.9149e+00
44	TAF120224	205.0774	206.9034	206.2327	4.0421e-01	1.9125e+00
45	TAF130224	212.2221	215.8756	213.9631	1.1174e+00	1.9139e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	1.9604e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.7159	1.2477e-01	1.9011e+00
48	TAI130138	253.3791	255.1492	254.2083	4.4124e-01	1.9227e+00
49	TAI130226	252.2172	253.7052	253.0266	2.9754e-01	1.9224e+00
50	TAI130314	258.9618	260.1714	259.4810	2.8083e-01	1.9240e+00
51	TAI130042	254.8717	256.3618	255.5293	3.0073e-01	1.9230e+00
52	TRR130090	130.8719	133.8007	132.2279	6.7392e-01	1.9026e+00
53	TSI000001	47.4991	48.2571	47.9646	1.7401e-01	1.9003e+00
54	TSI000002	120.2470	121.9785	120.9663	4.2643e-01	1.9017e+00
55	TSO000001	45.9946	46.8658	46.5543	1.8539e-01	1.9004e+00
56	TSO000002	62.2732	63.1290	62.6736	1.9547e-01	1.9000e+00
57	TAF020136	103.3961	105.4777	104.3522	5.0394e-01	1.9008e+00
58	TAF120312	208.9375	211.9968	210.4585	6.5323e-01	1.9132e+00
59	TAF130312	227.5564	230.0117	228.5677	6.2935e-01	1.9169e+00
60	EMPTY	3.9795	4.0039	3.9918	6.5614e-03	0.0000e+00
61	EMPTY	3.9746	3.9893	3.9823	4.4216e-03	0.0000e+00
62	EMPTY	3.9648	3.9795	3.9738	3.4681e-03	0.0000e+00
63	EMPTY	3.9648	3.9746	3.9697	2.9594e-03	0.0000e+00
64	EMPTY	1.8506	1.8604	1.8557	1.9631e-03	0.0000e+00
65	EMPTY	1.8652	1.8701	1.8668	2.3008e-03	0.0000e+00
66	EMPTY	1.8701	1.8799	1.8755	2.0337e-03	0.0000e+00
67	EMPTY	1.8848	1.8896	1.8855	1.8082e-03	0.0000e+00
68	EMPTY	1.8896	1.8945	1.8907	2.0432e-03	0.0000e+00
69	EMPTY	1.8994	1.9043	1.9009	2.2603e-03	0.0000e+00
70	EMPTY	1.9043	1.9092	1.9090	9.6655e-04	0.0000e+00
71	EMPTY	1.9238	1.9287	1.9248	1.9730e-03	0.0000e+00
72	EMPTY	1.9287	1.9336	1.9305	2.3675e-03	0.0000e+00
73	EMPTY	1.9385	1.9531	1.9415	2.9413e-03	0.0000e+00
74	EMPTY	1.9482	1.9531	1.9487	1.4797e-03	0.0000e+00
75	EMPTY	1.9580	1.9629	1.9581	6.9053e-04	0.0000e+00
76	EMPTY	1.9629	1.9678	1.9647	2.3941e-03	0.0000e+00
77	EMPTY	1.9727	1.9824	1.9773	1.3811e-03	0.0000e+00
78	EMPTY	1.9873	1.9922	1.9921	6.9053e-04	0.0000e+00
79	EMPTY	2.0068	2.0117	2.0095	2.4583e-03	0.0000e+00
80	PAN020136	-17.1367	-15.0767	-16.5629	3.9274e-01	8.7098e-01
81	PAN050136	-31.2432	-30.3277	-30.7915	1.9487e-01	1.6818e+00
82	PAN070136	-20.8368	-20.3027	-20.5041	1.1916e-01	8.7151e-01
83	PAN080136	-11.4879	-6.9865	-10.8470	7.7053e-01	8.7042e-01
84	PAN090136	-12.7703	-9.1082	-10.5150	8.9760e-01	8.7040e-01
85	PAN100136	-10.9364	-8.5713	-9.8179	6.5822e-01	8.7035e-01
86	PAN105136	-6.4827	0.9941	-4.9462	1.2080e+00	8.7009e-01
87	PAN110136	-6.2524	-3.3532	-5.0774	6.6761e-01	8.7009e-01
88	PAN115136	-6.1570	4.4479	-4.6449	1.5516e+00	8.7008e-01
89	PAN120136	-6.7248	-4.1308	-5.3973	6.7187e-01	8.7010e-01
90	PAN125136	-6.0220	-3.1991	-4.7677	5.4608e-01	8.7008e-01
91	PAN130136	-5.6655	-4.0634	-4.6096	3.3143e-01	8.7008e-01
92	PAN120048	-12.0162	-9.9563	-10.6780	4.9112e-01	8.7041e-01
93	PAN130048	-11.2004	-9.7508	-10.5153	3.3575e-01	8.7040e-01
94	PAN120224	-12.2509	-9.5043	-10.1635	6.8669e-01	8.7037e-01
95	PAN130224	-10.4726	-8.9468	-9.6777	3.1290e-01	8.7034e-01
96	PAN120312	-12.2626	-8.9057	-10.0242	7.7401e-01	8.7036e-01
97	PAN130312	-10.3436	-8.6651	-9.5425	3.7384e-01	8.7033e-01
98	PAB000136	40.3604	40.5893	40.4492	5.5804e-02	5.8875e-01
99	PAB100136	43.8588	44.0877	43.9531	4.3780e-02	5.9032e-01
100	PAB125136	44.8755	45.0128	44.9396	4.3378e-02	5.9078e-01

Test: May08_06

sum1

Date: Tue May 8 12:03:43 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9695	40.3357	40.1526	8.9771e-02	7.5669e-01
102	PRV000001	15.3654	15.4875	15.4069	5.8413e-02	7.5099e-01
103	PSR000001	45.0731	45.1952	45.0951	4.7374e-02	7.5843e-01
104	PFM000001	2.1938	2.4684	2.3164	6.5682e-02	5.0003e-01
105	PAN000136	-130.5594	-125.0663	-128.0417	1.1780e+00	4.9304e+00
106	PFM000002	2.3334	2.4005	2.3626	1.8196e-02	2.0009e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-8.2471	-7.4414	-7.7618	1.9010e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0007	1.7115e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0098	0.0000	-0.0018	2.5648e-03	0.0000e+00
112	VPW000001	101.5587	103.1212	102.3869	3.0196e-01	1.0166e+00
113	VPW000002	119.5162	120.4928	119.9616	2.3689e-01	1.0836e+00
114	VPW000003	147.5473	149.1098	148.1919	3.0373e-01	1.2028e+00
115	VPW000004	104.7100	106.2725	105.4444	3.2433e-01	1.0278e+00
116	VPW000005	139.4081	141.3612	140.2284	3.7642e-01	1.1679e+00
117	VPW000006	146.5445	147.9117	147.0757	3.1080e-01	1.1978e+00
118	IPW000001	556.2679	566.0297	561.4612	2.2176e+00	9.2349e+00
119	IPW000002	1272.0027	1285.6616	1278.1687	3.1131e+00	1.2945e+01
120	IPW000003	1305.8251	1321.4250	1311.8700	3.2307e+00	1.3154e+01
121	IPW000004	381.7044	387.5638	384.4583	1.3226e+00	3.6366e+00
122	IPW000005	252.2002	255.6178	253.6259	8.0037e-01	2.8310e+00
123	IPW000006	265.0146	267.9443	266.0986	6.8551e-01	2.9016e+00
124	EMPTY	-0.0293	-0.0195	-0.0231	3.3901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0163	2.7213e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0194	3.4863e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0175	3.2851e-03	0.0000e+00
128	IHT000001	131.4566	134.5816	132.6089	6.6527e-01	4.3091e+00
129	IHT000002	132.0538	134.7882	133.0381	6.4592e-01	4.3104e+00
130	IHT000003	131.1824	133.7214	132.1551	6.0937e-01	4.3077e+00
131	IHT000004	131.6782	134.2172	132.6548	6.6145e-01	4.3093e+00
132	IHT000005	129.0640	131.6031	130.0913	6.5532e-01	4.3014e+00
133	IHT000006	125.1615	128.0912	126.3685	6.7623e-01	4.2903e+00
134	IHT000007	129.8114	132.5458	130.8896	6.8030e-01	4.3039e+00
135	IHT000008	130.0218	132.5608	131.0179	6.6993e-01	4.3043e+00
136	IHT000009	130.8819	133.4210	131.9327	6.4945e-01	4.3070e+00
137	IHT000010	129.9354	132.4745	131.0917	5.6060e-01	4.3045e+00
138	IHT000011	134.3562	136.5046	135.2977	5.8085e-01	4.3175e+00
139	IHT000012	128.2489	130.5927	129.1826	5.9489e-01	4.2987e+00
140	IHT000013	91.7030	93.8514	92.7694	5.0872e-01	4.2036e+00
141	IHT000014	127.8132	130.1570	128.7547	5.7547e-01	4.2974e+00
142	IHT000015	95.7031	97.8516	96.6094	5.3925e-01	4.2123e+00
143	IHT000016	88.8108	90.7640	89.6585	4.9381e-01	4.1969e+00
144	IHT000017	105.2246	107.5683	106.1504	4.9726e-01	4.2352e+00
145	IHT000018	107.8163	109.7694	108.7538	4.9442e-01	4.2418e+00
146	IHT000019	103.4067	105.7505	104.5200	4.7882e-01	4.2311e+00
147	IHT000020	106.4078	108.3609	107.3413	4.7234e-01	4.2382e+00
148	IHT000021	-2.7532	-0.2141	-1.7258	5.9557e-01	4.1000e+00
149	IHT000022	92.3640	94.3172	93.3094	4.7574e-01	4.2048e+00
150	IHT000023	105.6152	107.3730	106.7207	4.0933e-01	4.2366e+00
151	IHT000024	70.9285	72.4910	71.7996	3.9303e-01	4.1624e+00
152	IHT000025	103.3128	105.0706	104.1644	4.0000e-01	4.2303e+00
153	IHT000026	105.4763	107.0388	106.1364	3.8640e-01	4.2351e+00
154	IHT000027	89.6597	91.8082	90.6675	4.7900e-01	4.1991e+00
155	IHT000028	91.5264	93.8702	92.7920	6.0777e-01	4.2037e+00

Test: May08_06

sum1

Date: Tue May 8 12:03:43 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.4462	107.7900	106.6338	5.5361e-01	4.2364e+00
157	IHT000030	107.0463	109.9760	108.6440	5.7411e-01	4.2415e+00
158	IHT000031	106.1861	108.9205	107.5181	5.4203e-01	4.2386e+00
159	IHT000032	107.5759	110.1149	108.8219	5.6757e-01	4.2420e+00
160	IHT000033	107.3843	110.1187	108.7866	5.8353e-01	4.2419e+00
161	IHT000034	93.9679	96.5069	95.0186	6.2126e-01	4.2087e+00
162	IHT000035	123.9896	126.7240	125.1499	6.0799e-01	4.2868e+00
163	IHT000036	92.5819	94.9256	93.5897	5.3286e-01	4.2055e+00

Test: May08_06

sum2

Date: Tue May 8 12:03:43 1990

Page: 1

Velocity 1 = 3.9523 (ft/sec) (+/- 10.9296 %)
Velocity 2 = 3.9930 (ft/sec) (+/- 4.1586 %)
Pressure drop = -4.6252 (psi)
Tsat in = 268.0442 (deg F) Tsat out = 274.3844 (deg F)
Phi inner = 101.9110 (kBtu/hr-ft2) (+/- 1.4096 %)
Phi outer = 101.5199 (kBtu/hr-ft2) (+/- 1.6181 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.3616	73.0008	72.6514	1.9616e-01	1.9000e+00
1	TRF000002	72.7799	73.6274	72.9876	1.5725e-01	1.9000e+00
2	TFM000001	86.9496	87.7889	87.4006	2.0780e-01	1.9002e+00
3	TIN000001	86.9184	87.7581	87.3408	1.8561e-01	1.9002e+00
4	TRV000001	87.5838	88.5256	87.9669	2.1091e-01	1.9002e+00
5	TSR000001	129.7685	132.9963	132.1757	6.8560e-01	1.9026e+00
6	TAO020136	189.2236	190.2933	189.6813	2.6975e-01	1.9096e+00
7	TAO050136	195.8505	197.1030	196.6382	3.1446e-01	1.9108e+00
8	TAO070136	194.0537	195.1222	194.6114	2.4874e-01	1.9104e+00
9	TAO080136	227.5798	228.7124	228.0690	2.2843e-01	1.9168e+00
10	TAO090136	234.1487	235.1836	234.6696	2.2283e-01	1.9182e+00
11	TAO100136	231.3249	233.9653	232.6325	5.5981e-01	1.9177e+00
12	TAO105136	238.7133	240.3134	239.4384	3.7945e-01	1.9192e+00
13	TAO110136	246.0054	247.5849	246.5204	3.3284e-01	1.9209e+00
14	TAO115136	244.1756	245.4920	244.8886	3.3864e-01	1.9205e+00
15	TAO120136	255.8294	256.8467	256.4200	2.1997e-01	1.9233e+00
16	TAO125136	250.3371	252.5725	251.4639	4.8574e-01	1.9221e+00
17	TAO130136	246.3222	247.4364	246.8658	2.2330e-01	1.9210e+00
18	TAO120048	260.6779	261.7904	261.3177	2.2959e-01	1.9245e+00
19	TAO130048	256.2574	257.0009	256.6347	1.9713e-01	1.9233e+00
20	TAO120224	257.9098	259.0252	258.4844	2.9420e-01	1.9238e+00
21	TAO130224	245.0399	246.3428	245.5341	3.5629e-01	1.9206e+00
22	TAO120312	253.5239	254.8289	254.2527	2.8295e-01	1.9227e+00
23	TAO130312	258.0798	258.9152	258.4457	1.8971e-01	1.9238e+00
24	TRT020000	189.3929	190.3673	189.8042	2.4839e-01	1.9096e+00
25	TRT070000	220.8783	222.3127	221.5951	2.7600e-01	1.9154e+00
26	TRT100000	250.9715	251.9967	251.4620	2.0353e-01	1.9221e+00
27	TRT120000	262.1781	263.3823	262.7472	3.0052e-01	1.9249e+00
28	TRT125000	273.6013	274.2453	273.9378	1.8859e-01	1.9278e+00
29	TRT130000	260.5493	261.5688	261.0886	2.1632e-01	1.9244e+00
30	EMPTY	39.1464	40.0646	39.5827	2.2839e-01	1.9011e+00
31	TAF050136	133.0406	134.7560	133.9553	3.6007e-01	1.9028e+00
32	TAF070136	152.5670	154.3513	153.6075	3.7091e-01	1.9047e+00
33	TAF080136	225.7190	229.9464	227.9302	9.9092e-01	1.9167e+00
34	TAF090136	162.5709	164.0545	163.3602	3.4854e-01	1.9059e+00
35	TAF100136	180.6345	182.8861	181.6394	6.3667e-01	1.9084e+00
36	TAF105136	184.2603	186.9651	185.1313	6.7382e-01	1.9089e+00
37	TAF110136	207.5680	211.0051	208.8654	7.1775e-01	1.9129e+00
38	TAF115136	194.3643	196.2001	195.2017	4.5925e-01	1.9105e+00
39	TAF120136	226.7224	230.5878	228.1065	8.3626e-01	1.9168e+00
40	TAF125136	205.0211	208.3588	205.8962	5.8514e-01	1.9124e+00
41	TAF130136	209.0907	211.1950	209.8851	4.6935e-01	1.9131e+00
42	TAF120048	208.6959	210.9145	209.8629	5.2393e-01	1.9131e+00
43	TAF130048	217.9417	220.7945	218.7885	5.2992e-01	1.9149e+00
44	TAF120224	204.7887	207.8628	206.1558	6.0741e-01	1.9124e+00
45	TAF130224	211.6451	214.7221	212.9438	5.5626e-01	1.9137e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.0710	2.2002e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6791	1.0815e-01	1.9011e+00
48	TAI130138	253.3785	255.2426	254.2792	3.8933e-01	1.9227e+00
49	TAI130226	252.4039	253.4274	252.9974	2.6488e-01	1.9224e+00
50	TAI130314	259.0543	260.1709	259.5143	2.8657e-01	1.9240e+00
51	TAI130042	254.8718	256.4547	255.6112	3.5614e-01	1.9231e+00
52	TRR130090	141.8462	144.1510	142.9027	5.4070e-01	1.9036e+00
53	TSI000001	47.4991	48.3655	47.8827	2.0438e-01	1.9003e+00
54	TSI000002	124.6224	126.0446	125.2504	3.2042e-01	1.9021e+00
55	TSO000001	45.9937	46.8648	46.4275	2.2480e-01	1.9004e+00
56	TSO000002	62.0593	63.1294	62.6438	2.2806e-01	1.9000e+00
57	TAF020136	102.9799	105.4773	104.1770	5.1325e-01	1.9008e+00
58	TAF120312	208.7461	212.5699	210.1488	7.2119e-01	1.9132e+00
59	TAF130312	227.4626	230.7653	228.6509	7.7757e-01	1.9169e+00
60	EMPTY	3.9795	4.0137	3.9915	7.5264e-03	0.0000e+00
61	EMPTY	3.9795	3.9941	3.9828	3.6165e-03	0.0000e+00
62	EMPTY	3.9697	3.9795	3.9735	2.6635e-03	0.0000e+00
63	EMPTY	3.9648	3.9844	3.9706	3.5141e-03	0.0000e+00
64	EMPTY	1.8506	1.8555	1.8540	2.2603e-03	0.0000e+00
65	EMPTY	1.8652	1.8701	1.8655	1.1714e-03	0.0000e+00
66	EMPTY	1.8701	1.8799	1.8741	2.1364e-03	0.0000e+00
67	EMPTY	1.8799	1.8848	1.8832	2.3008e-03	0.0000e+00
68	EMPTY	1.8848	1.8896	1.8895	9.6655e-04	0.0000e+00
69	EMPTY	1.8994	1.9043	1.8995	6.9053e-04	0.0000e+00
70	EMPTY	1.9043	1.9092	1.9064	2.4484e-03	0.0000e+00
71	EMPTY	1.9189	1.9238	1.9230	1.8082e-03	0.0000e+00
72	EMPTY	1.9238	1.9287	1.9286	6.9053e-04	0.0000e+00
73	EMPTY	1.9385	1.9434	1.9388	1.1714e-03	0.0000e+00
74	EMPTY	1.9434	1.9482	1.9477	1.6028e-03	0.0000e+00
75	EMPTY	1.9531	1.9580	1.9559	2.4484e-03	0.0000e+00
76	EMPTY	1.9629	1.9629	1.9629	0.0000e+00	0.0000e+00
77	EMPTY	1.9678	1.9775	1.9736	2.2058e-03	0.0000e+00
78	EMPTY	1.9873	1.9922	1.9891	2.3675e-03	0.0000e+00
79	EMPTY	2.0068	2.0068	2.0068	0.0000e+00	0.0000e+00
80	PAN020136	-19.1203	-15.5345	-16.2456	7.3945e-01	8.7095e-01
81	PAN050136	-31.5484	-30.7854	-31.1242	1.7244e-01	1.6818e+00
82	PAN070136	-20.8368	-20.3027	-20.5789	1.2512e-01	8.7152e-01
83	PAN080136	-11.4116	-6.9865	-10.6532	8.6350e-01	8.7041e-01
84	PAN090136	-11.8548	-8.1163	-10.9499	5.8410e-01	8.7043e-01
85	PAN100136	-12.3859	-8.6475	-9.7279	1.0583e+00	8.7034e-01
86	PAN105136	-5.1857	-1.6762	-4.1192	6.9199e-01	8.7006e-01
87	PAN110136	-6.2524	-4.8028	-5.3902	3.8046e-01	8.7010e-01
88	PAN115136	-5.6229	-3.7919	-4.8158	4.7635e-01	8.7008e-01
89	PAN120136	-6.6485	2.8119	-5.2905	1.4319e+00	8.7010e-01
90	PAN125136	-7.0901	-4.1147	-5.0363	7.1351e-01	8.7009e-01
91	PAN130136	-5.5892	-3.6819	-4.6356	4.0083e-01	8.7008e-01
92	PAN120048	-12.0925	-10.3377	-10.8626	3.5740e-01	8.7042e-01
93	PAN130048	-11.0478	-9.7508	-10.3475	2.7300e-01	8.7038e-01
94	PAN120224	-12.2509	-8.7414	-10.1208	7.7894e-01	8.7037e-01
95	PAN130224	-10.2438	-8.8705	-9.4946	3.3864e-01	8.7032e-01
96	PAN120312	-12.1863	-8.9820	-9.8548	6.0334e-01	8.7035e-01
97	PAN130312	-10.3436	-8.6651	-9.6707	3.5874e-01	8.7034e-01
98	PAB000136	40.3146	40.5893	40.4556	6.5942e-02	5.8875e-01
99	PAB100136	43.8588	44.0877	43.9742	5.0857e-02	5.9033e-01
100	PAB125136	44.8755	45.0586	44.9542	4.7193e-02	5.9079e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7254	40.4578	40.2136	1.1029e-01	7.5671e-01
102	PRV000001	15.3654	15.4875	15.4802	2.9284e-02	7.5100e-01
103	PSR000001	45.0731	45.1952	45.1146	5.8413e-02	7.5843e-01
104	PFM000001	2.1938	2.4684	2.3146	6.7809e-02	5.0003e-01
105	PAN000136	-134.2215	-125.9818	-128.0509	1.4424e+00	4.9304e+00
106	PFM000002	2.3334	2.3837	2.3636	1.3977e-02	2.0009e-01
107	EMPTY	-0.0049	0.0000	-0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-7.8564	-7.0947	-7.3072	1.3574e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0019	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
112	VPW000001	102.1447	102.9259	102.6369	1.6384e-01	1.0175e+00
113	VPW000002	119.7116	120.2975	119.9967	1.1975e-01	1.0837e+00
114	VPW000003	147.9380	148.7192	148.3950	1.6082e-01	1.2037e+00
115	VPW000004	105.1006	106.0772	105.7022	2.5524e-01	1.0287e+00
116	VPW000005	139.9940	140.9706	140.4472	2.2474e-01	1.1689e+00
117	VPW000006	146.7398	147.5211	147.1343	1.9527e-01	1.1981e+00
118	IPW000001	546.5062	552.3633	550.0984	1.5459e+00	9.1922e+00
119	IPW000002	1299.3206	1307.1256	1302.9109	2.0620e+00	1.3098e+01
120	IPW000003	1323.3750	1335.0751	1329.3031	2.3951e+00	1.3262e+01
121	IPW000004	378.7747	382.6810	381.4114	8.4285e-01	3.6165e+00
122	IPW000005	253.6649	255.1296	254.5047	4.5244e-01	2.8359e+00
123	IPW000006	266.9677	268.4326	267.7978	3.7239e-01	2.9113e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	3.9323e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0150	2.3839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0188	3.9471e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.8511e-03	0.0000e+00
128	IHT000001	131.6510	133.8003	132.6675	5.0992e-01	4.3093e+00
129	IHT000002	132.2491	134.0069	133.1006	4.4601e-01	4.3106e+00
130	IHT000003	131.3777	133.5261	132.3075	4.6615e-01	4.3082e+00
131	IHT000004	131.8735	133.8266	132.7915	4.8848e-01	4.3097e+00
132	IHT000005	129.2593	131.2124	130.2749	4.1573e-01	4.3020e+00
133	IHT000006	125.5521	127.5052	126.5248	4.4902e-01	4.2908e+00
134	IHT000007	130.0068	132.1552	131.0224	4.6354e-01	4.3043e+00
135	IHT000008	130.2171	132.3655	131.1624	5.0124e-01	4.3047e+00
136	IHT000009	131.0772	133.6163	132.1202	5.7129e-01	4.3076e+00
137	IHT000010	130.1307	132.4745	131.1581	5.3788e-01	4.3047e+00
138	IHT000011	134.3562	136.5046	135.2625	4.5294e-01	4.3174e+00
139	IHT000012	128.2489	130.2021	129.1084	4.6689e-01	4.2985e+00
140	IHT000013	92.0936	93.6561	92.8397	4.3349e-01	4.2038e+00
141	IHT000014	128.0086	129.7664	128.8446	5.1151e-01	4.2977e+00
142	IHT000015	95.5078	97.8516	96.7187	4.8648e-01	4.2125e+00
143	IHT000016	88.6155	90.9593	89.8069	5.4996e-01	4.1972e+00
144	IHT000017	104.8340	107.5683	106.3027	5.7891e-01	4.2356e+00
145	IHT000018	107.8163	109.9647	108.7538	5.6359e-01	4.2418e+00
146	IHT000019	103.7973	106.3364	104.5864	6.0484e-01	4.2313e+00
147	IHT000020	106.4078	109.3374	107.3687	6.3729e-01	4.2383e+00
148	IHT000021	-2.7532	0.3718	-1.6204	7.1790e-01	4.1000e+00
149	IHT000022	92.5594	95.2937	93.5242	5.8979e-01	4.2053e+00
150	IHT000023	106.0059	108.3496	106.7363	5.3932e-01	4.2367e+00
151	IHT000024	70.9285	73.4675	71.7683	5.3270e-01	4.1623e+00
152	IHT000025	103.3128	105.8519	104.1800	5.7610e-01	4.2303e+00
153	IHT000026	105.2810	107.6247	106.1442	5.2510e-01	4.2352e+00
154	IHT000027	89.8550	92.0035	90.8823	4.6322e-01	4.1995e+00
155	IHT000028	91.3311	94.6514	92.7959	7.3742e-01	4.2037e+00

Test: May08_06 sum2 Date: Tue May 8 12:03:43 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2509	108.3759	106.4072	7.0679e-01	4.2358e+00
157	IHT000030	107.0463	109.7807	108.3393	6.9463e-01	4.2407e+00
158	IHT000031	105.9908	108.7252	107.2837	6.7761e-01	4.2380e+00
159	IHT000032	107.1852	110.1149	108.5915	6.4838e-01	4.2414e+00
160	IHT000033	107.1890	110.1187	108.5288	6.1764e-01	4.2412e+00
161	IHT000034	93.7726	96.3116	95.0420	5.5137e-01	4.2087e+00
162	IHT000035	123.9896	126.5287	125.1772	5.5079e-01	4.2868e+00
163	IHT000036	92.3866	94.9256	93.6131	5.7187e-01	4.2055e+00

Test: May08_06 dif Date: Tue May 8 12:03:43 1990 Page: 1

Velocity 1 = 0.001700 (ft/sec)

Velocity 2 = 0.000800 (ft/sec)

Pressure Drop = 0.000300 (psi)

Tsat in = 0.009491 (deg F) Tsat out = 0.019806 (deg F)

Phi inner = 1.343102 (kBtu/hr-ft2) Phi outer = 0.683197 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0767	0.1057
1	TRF000002	0.0848	0.1163
2	TFM000001	0.2385	0.2721
3	TIN000001	0.2019	0.2306
4	TRV000001	0.1498	0.1700
5	TSR000001	2.4126	1.8592
6	TAO020136	1.7078	0.8923
7	TAO050136	0.1418	0.0721
8	TAO070136	0.8860	0.4573
9	TAO080136	0.0935	0.0410
10	TAO090136	0.2706	0.1152
11	TAO100136	0.2637	0.1132
12	TAO105136	0.0112	0.0047
13	TAO110136	0.1288	0.0522
14	TAO115136	0.5753	0.2344
15	TAO120136	0.4530	0.1763
16	TAO125136	0.4355	0.1729
17	TAO130136	0.3562	0.1441
18	TAO120048	0.1110	0.0425
19	TAO130048	0.0034	0.0013
20	TAO120224	0.2674	0.1033
21	TAO130224	0.6449	0.2620
22	TAO120312	7.3765	2.8195
23	TAO130312	0.2517	0.0973
24	TRT020000	0.9626	0.5046
25	TRT070000	0.0962	0.0434
26	TRT100000	0.0518	0.0206
27	TRT120000	0.0706	0.0269
28	TRT125000	0.0762	0.0278
29	TRT130000	0.1291	0.0494
30	EMPTY	0.0184	0.0465
31	TAF050136	0.2456	0.1830
32	TAF070136	0.2136	0.1389
33	TAF080136	0.0644	0.0283
34	TAF090136	1.1349	0.6996
35	TAF100136	0.0195	0.0107
36	TAF105136	0.7644	0.4112
37	TAF110136	0.3701	0.1769
38	TAF115136	0.9188	0.4685
39	TAF120136	0.6370	0.2785
40	TAF125136	0.7393	0.3578
41	TAF130136	0.5579	0.2651
42	TAF120048	0.1772	0.0845
43	TAF130048	0.0153	0.0070
44	TAF120224	0.0769	0.0373
45	TAF130224	1.0193	0.4764

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0363
47	EMPTY	0.0368	0.0927
48	TAI130138	0.0709	0.0279
49	TAI130226	0.0292	0.0115
50	TAI130314	0.0333	0.0128
51	TAI130042	0.0819	0.0321
52	TRR130090	10.6748	8.0730
53	TSI000001	0.0819	0.1707
54	TSI000002	4.2841	3.5416
55	TSO000001	0.1268	0.2724
56	TSO000002	0.0298	0.0475
57	TAF020136	0.1752	0.1679
58	TAF120312	0.3097	0.1472
59	TAF130312	0.0832	0.0364
60	EMPTY	0.0003	0.0075
61	EMPTY	0.0005	0.0126
62	EMPTY	0.0003	0.0075
63	EMPTY	0.0009	0.0227
64	EMPTY	0.0017	0.0916
65	EMPTY	0.0013	0.0696
66	EMPTY	0.0014	0.0746
67	EMPTY	0.0023	0.1220
68	EMPTY	0.0012	0.0635
69	EMPTY	0.0014	0.0736
70	EMPTY	0.0026	0.1362
71	EMPTY	0.0018	0.0935
72	EMPTY	0.0019	0.0984
73	EMPTY	0.0027	0.1391
74	EMPTY	0.0010	0.0513
75	EMPTY	0.0022	0.1124
76	EMPTY	0.0018	0.0916
77	EMPTY	0.0037	0.1871
78	EMPTY	0.0030	0.1506
79	EMPTY	0.0027	0.1344
80	PAN020136	0.3173	1.9157
81	PAN050136	0.3327	1.0805
82	PAN070136	0.0748	0.3648
83	PAN080136	0.1938	1.7867
84	PAN090136	0.4349	4.1360
85	PAN100136	0.0900	0.9167
86	PAN105136	0.8270	16.7199
87	PAN110136	0.3128	6.1606
88	PAN115136	0.1709	3.6793
89	PAN120136	0.1068	1.9788
90	PAN125136	0.2686	5.6337
91	PAN130136	0.0260	0.5640
92	PAN120048	0.1846	1.7288
93	PAN130048	0.1678	1.5958
94	PAN120224	0.0427	0.4201
95	PAN130224	0.1831	1.8920
96	PAN120312	0.1694	1.6899
97	PAN130312	0.1282	1.3435
98	PAB000136	0.0064	0.0158
99	PAB100136	0.0211	0.0480
100	PAB125136	0.0146	0.0325

Test: May08_06

dif

Date: Tue May 8 12:03:43 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0610	0.1519
102	PRV000001	0.0733	0.4758
103	PSR000001	0.0195	0.0432
104	PFM000001	0.0018	0.0777
105	PAN000136	0.0092	0.0072
106	PFM000002	0.0010	0.0423
107	EMPTY	0.0001	2.0833
108	EMPTY	0.4546	5.8569
109	EMPTY	0.0012	171.4286
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	22.2222
112	VPW000001	0.2500	0.2442
113	VPW000002	0.0351	0.0293
114	VPW000003	0.2031	0.1371
115	VPW000004	0.2578	0.2445
116	VPW000005	0.2188	0.1560
117	VPW000006	0.0586	0.0398
118	IPW000001	11.3628	2.0238
119	IPW000002	24.7422	1.9358
120	IPW000003	17.4331	1.3289
121	IPW000004	3.0469	0.7925
122	IPW000005	0.8788	0.3465
123	IPW000006	1.6992	0.6386
124	EMPTY	0.0005	2.1645
125	EMPTY	0.0013	7.9755
126	EMPTY	0.0006	3.0928
127	EMPTY	0.0003	1.7143
128	IHT000001	0.0586	0.0442
129	IHT000002	0.0625	0.0470
130	IHT000003	0.1524	0.1153
131	IHT000004	0.1367	0.1031
132	IHT000005	0.1836	0.1411
133	IHT000006	0.1563	0.1237
134	IHT000007	0.1328	0.1015
135	IHT000008	0.1445	0.1103
136	IHT000009	0.1875	0.1421
137	IHT000010	0.0664	0.0506
138	IHT000011	0.0352	0.0260
139	IHT000012	0.0742	0.0574
140	IHT000013	0.0703	0.0758
141	IHT000014	0.0899	0.0698
142	IHT000015	0.1093	0.1131
143	IHT000016	0.1484	0.1655
144	IHT000017	0.1523	0.1435
145	IHT000018	0.0000	0.0000
146	IHT000019	0.0664	0.0635
147	IHT000020	0.0274	0.0255
148	IHT000021	0.1054	6.1073
149	IHT000022	0.2148	0.2302
150	IHT000023	0.0156	0.0146
151	IHT000024	0.0313	0.0436
152	IHT000025	0.0156	0.0150
153	IHT000026	0.0078	0.0074
154	IHT000027	0.2148	0.2369
155	IHT000028	0.0039	0.0042

Test: May08_06 dif Date: Tue May 8 12:03:43 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.2266	0.2125
157	IHT000030	0.3047	0.2805
158	IHT000031	0.2344	0.2180
159	IHT000032	0.2304	0.2117
160	IHT000033	0.2578	0.2370
161	IHT000034	0.0234	0.0246
162	IHT000035	0.0273	0.0218
163	IHT000036	0.0234	0.0250

Test: May08_07

sum1

Date: Tue May 8 12:18:40 1990

Page: 1

Velocity 1 = 3.4874 (ft/sec) (+/- 14.0590 %)
Velocity 2 = 3.5043 (ft/sec) (+/- 5.2489 %)
Pressure drop = -4.7545 (psi)
Tsats in = 268.0617 (deg F) Tsats out = 274.5399 (deg F)
Phi inner = 102.2321 (kBtu/hr-ft2) (+/- 1.4088 %)
Phi outer = 102.0903 (kBtu/hr-ft2) (+/- 1.6164 %)
D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.3616	73.0008	72.7622	1.8586e-01	1.9000e+00
1	TRF000002	72.7799	73.4156	73.0808	1.3599e-01	1.9000e+00
2	TFM000001	86.6366	87.4749	87.0994	1.9304e-01	1.9002e+00
3	TIN000001	86.7080	87.3385	87.0213	1.4321e-01	1.9002e+00
4	TRV000001	87.2715	88.1077	87.7212	1.9971e-01	1.9002e+00
5	TSR000001	135.1082	137.0190	136.0396	5.1778e-01	1.9029e+00
6	TAO020136	199.4087	200.5687	200.1721	2.8909e-01	1.9114e+00
7	TAO050136	207.8253	209.4485	208.6446	3.9469e-01	1.9129e+00
8	TAO070136	204.5106	206.6322	205.6354	4.8516e-01	1.9124e+00
9	TAO080136	243.2197	244.6178	243.9632	3.0814e-01	1.9203e+00
10	TAO090136	251.6490	252.4878	252.0088	2.0873e-01	1.9222e+00
11	TAO100136	250.2710	251.8559	251.0414	3.9589e-01	1.9220e+00
12	TAO105136	256.9716	258.1819	257.6847	3.3567e-01	1.9236e+00
13	TAO110136	264.8041	267.0940	266.3447	4.3782e-01	1.9258e+00
14	TAO115136	264.0851	266.3138	265.2461	4.8597e-01	1.9255e+00
15	TAO120136	276.0046	276.8278	276.4342	2.3010e-01	1.9285e+00
16	TAO125136	270.8966	273.6568	272.2203	4.6207e-01	1.9274e+00
17	TAO130136	266.2924	267.5698	266.9262	2.5675e-01	1.9259e+00
18	TAO120048	280.9444	282.2271	281.4704	2.5373e-01	1.9299e+00
19	TAO130048	275.9679	276.7937	276.4247	1.8489e-01	1.9285e+00
20	TAO120224	278.5066	279.7921	279.0742	2.6923e-01	1.9292e+00
21	TAO130224	264.7891	266.7157	265.8120	4.3764e-01	1.9257e+00
22	TAO120312	270.3167	271.3324	270.7839	2.5530e-01	1.9270e+00
23	TAO130312	277.5238	278.6245	278.1529	2.3366e-01	1.9290e+00
24	TRT020000	199.8826	201.1403	200.5462	2.8644e-01	1.9114e+00
25	TRT070000	236.5992	237.7354	237.0634	2.3041e-01	1.9187e+00
26	TRT100000	270.0417	271.0559	270.4938	2.2594e-01	1.9269e+00
27	TRT120000	282.2472	283.3457	282.7395	2.4948e-01	1.9302e+00
28	TRT125000	290.1689	290.9867	290.4835	1.7418e-01	1.9325e+00
29	TRT130000	280.2332	280.9663	280.5904	1.7684e-01	1.9296e+00
30	EMPTY	39.1464	39.8352	39.5873	2.0131e-01	1.9011e+00
31	TAF050136	139.9834	142.1902	141.1864	4.6363e-01	1.9034e+00
32	TAF070136	162.1540	165.1070	163.7751	6.0395e-01	1.9059e+00
33	TAF080136	229.7566	243.7670	240.1199	3.1498e+00	1.9194e+00
34	TAF090136	173.1099	175.3652	174.1788	5.4504e-01	1.9073e+00
35	TAF100136	194.0881	197.3835	195.5949	7.1089e-01	1.9106e+00
36	TAF105136	199.0742	203.8536	200.5375	1.1196e+00	1.9114e+00
37	TAF110136	225.5330	229.7814	227.2467	1.0254e+00	1.9166e+00
38	TAF115136	210.6098	215.0028	212.0649	9.1201e-01	1.9135e+00
39	TAF120136	255.9058	258.6836	257.3973	6.8991e-01	1.9235e+00
40	TAF125136	222.8598	227.0962	224.0293	8.2687e-01	1.9159e+00
41	TAF130136	226.6870	228.9556	227.9630	4.8956e-01	1.9167e+00
42	TAF120048	225.7925	228.7508	227.2310	4.8202e-01	1.9166e+00
43	TAF130048	237.0484	238.7397	238.0087	4.1254e-01	1.9189e+00
44	TAF120224	222.0000	224.4702	223.2184	6.5278e-01	1.9158e+00
45	TAF130224	229.9227	232.2996	231.1151	6.0425e-01	1.9174e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	1.8470e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8352	1.2267e-01	1.9011e+00
48	TAI130138	273.7659	275.3311	274.7255	3.2921e-01	1.9280e+00
49	TAI130226	272.6253	274.4611	273.4721	3.4111e-01	1.9277e+00
50	TAI130314	277.9431	279.1400	278.6225	2.6945e-01	1.9291e+00
51	TAI130042	274.6933	276.1669	275.5832	3.4833e-01	1.9283e+00
52	TRR130090	139.9400	147.6497	144.9002	1.8569e+00	1.9038e+00
53	TSI000001	47.8235	48.5821	48.1512	1.8243e-01	1.9003e+00
54	TSI000002	123.1997	125.7395	124.7307	5.8394e-01	1.9020e+00
55	TSO000001	46.2118	47.0827	46.6190	1.9644e-01	1.9004e+00
56	TSO000002	63.8763	64.9455	64.3706	2.6074e-01	1.9000e+00
57	TAF020136	105.6856	108.2806	107.0043	5.7414e-01	1.9009e+00
58	TAF120312	226.7319	229.4741	228.0089	6.0977e-01	1.9167e+00
59	TAF130312	247.2668	250.6213	249.1434	7.6720e-01	1.9215e+00
60	EMPTY	4.5020	4.5361	4.5195	9.6150e-03	0.0000e+00
61	EMPTY	4.4922	4.5166	4.5065	6.2709e-03	0.0000e+00
62	EMPTY	4.4873	4.5020	4.4947	4.8568e-03	0.0000e+00
63	EMPTY	4.4824	4.4971	4.4896	4.9560e-03	0.0000e+00
64	EMPTY	2.0752	2.0850	2.0821	2.6267e-03	0.0000e+00
65	EMPTY	2.0898	2.0947	2.0924	2.4642e-03	0.0000e+00
66	EMPTY	2.0947	2.1045	2.0988	2.2839e-03	0.0000e+00
67	EMPTY	2.1045	2.1094	2.1073	2.4344e-03	0.0000e+00
68	EMPTY	2.1094	2.1143	2.1116	2.4583e-03	0.0000e+00
69	EMPTY	2.1143	2.1240	2.1208	2.5362e-03	0.0000e+00
70	EMPTY	2.1240	2.1289	2.1276	2.1635e-03	0.0000e+00
71	EMPTY	2.1387	2.1436	2.1420	2.3008e-03	0.0000e+00
72	EMPTY	2.1436	2.1484	2.1470	2.2603e-03	0.0000e+00
73	EMPTY	2.1533	2.1582	2.1564	2.3675e-03	0.0000e+00
74	EMPTY	2.1582	2.1680	2.1627	1.9331e-03	0.0000e+00
75	EMPTY	2.1680	2.1729	2.1710	2.3941e-03	0.0000e+00
76	EMPTY	2.1729	2.1777	2.1767	2.0432e-03	0.0000e+00
77	EMPTY	2.1826	2.1875	2.1873	9.6655e-04	0.0000e+00
78	EMPTY	2.1973	2.2070	2.2007	2.4662e-03	0.0000e+00
79	EMPTY	2.2119	2.2168	2.2166	9.6655e-04	0.0000e+00
80	PAN020136	-19.1203	-14.6190	-17.2877	1.3014e+00	8.7107e-01
81	PAN050136	-32.6165	-30.0225	-31.2432	6.6832e-01	1.6818e+00
82	PAN070136	-25.5670	-17.5561	-22.6022	1.6909e+00	8.7183e-01
83	PAN080136	-14.0819	-4.8503	-10.4091	1.7726e+00	8.7039e-01
84	PAN090136	-12.7703	-3.2335	-10.6325	1.9633e+00	8.7041e-01
85	PAN100136	-12.3097	-7.9609	-10.0620	8.3494e-01	8.7036e-01
86	PAN105136	-6.1013	0.9941	-5.0011	9.6568e-01	8.7009e-01
87	PAN110136	-6.2524	0.3852	-5.0271	9.3268e-01	8.7009e-01
88	PAN115136	-6.1570	-3.5630	-4.4877	6.0598e-01	8.7007e-01
89	PAN120136	-6.0382	-3.5968	-5.1715	4.7577e-01	8.7010e-01
90	PAN125136	-5.5642	-4.1147	-4.7143	2.9569e-01	8.7008e-01
91	PAN130136	-5.2078	-4.1397	-4.8263	2.4854e-01	8.7008e-01
92	PAN120048	-11.2533	-9.0408	-10.4690	5.3128e-01	8.7039e-01
93	PAN130048	-11.1241	-9.8271	-10.6206	2.7958e-01	8.7041e-01
94	PAN120224	-10.7250	-8.2836	-9.6401	4.6607e-01	8.7033e-01
95	PAN130224	-10.6252	-8.7179	-9.7814	3.7800e-01	8.7034e-01
96	PAN120312	-12.1863	-7.3798	-9.7495	6.3988e-01	8.7034e-01
97	PAN130312	-10.1147	-8.9703	-9.7790	2.4371e-01	8.7034e-01
98	PAB000136	40.2688	40.5893	40.4675	6.7080e-02	5.8876e-01
99	PAB100136	43.9961	44.2250	44.0977	4.8313e-02	5.9038e-01
100	PAB125136	44.9670	45.1501	45.0696	5.1125e-02	5.9084e-01

Test: May08_07

sum1

Date: Tue May 8 12:18:40 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3357	40.7019	40.4944	7.8957e-02	7.5680e-01
102	PRV000001	15.3654	15.4875	15.4460	5.8413e-02	7.5099e-01
103	PSR000001	45.1952	45.4393	45.3050	5.0842e-02	7.5850e-01
104	PFM000001	1.6444	1.9191	1.7909	6.4074e-02	5.0002e-01
105	PAN000136	-136.0526	-129.1861	-131.6306	1.4405e+00	4.9310e+00
106	PFM000002	1.7796	1.8468	1.8088	1.4703e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-7.5439	-6.6895	-7.0865	2.0812e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0007	1.7115e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0044	1.4797e-03	0.0000e+00
112	VPW000001	102.1447	103.3166	102.7306	2.9264e-01	1.0179e+00
113	VPW000002	119.9069	120.6881	120.2076	1.7739e-01	1.0846e+00
114	VPW000003	148.1333	148.9145	148.4497	2.0078e-01	1.2039e+00
115	VPW000004	104.9053	106.2725	105.6358	2.8945e-01	1.0285e+00
116	VPW000005	139.9940	141.1659	140.5331	2.5742e-01	1.1692e+00
117	VPW000006	146.7398	147.9117	147.3179	2.3331e-01	1.1989e+00
118	IPW000001	542.6016	552.3633	547.2090	2.1517e+00	9.1814e+00
119	IPW000002	1311.0261	1320.7844	1314.9695	2.2122e+00	1.3173e+01
120	IPW000003	1329.2250	1338.9750	1333.5151	2.0088e+00	1.3289e+01
121	IPW000004	379.7513	385.1224	382.3392	1.2092e+00	3.6226e+00
122	IPW000005	253.6649	256.5943	254.8562	6.4801e-01	2.8379e+00
123	IPW000006	266.4795	269.4091	267.7881	5.4426e-01	2.9113e+00
124	EMPTY	-0.0293	-0.0146	-0.0232	3.3540e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0153	2.4184e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0195	3.1195e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0178	2.7480e-03	0.0000e+00
128	IHT000001	131.6519	133.8003	132.5464	5.1006e-01	4.3089e+00
129	IHT000002	131.8585	134.5929	132.9639	5.2735e-01	4.3102e+00
130	IHT000003	130.9871	133.5261	132.0653	5.1485e-01	4.3074e+00
131	IHT000004	131.4829	134.0219	132.5884	5.7400e-01	4.3091e+00
132	IHT000005	129.0640	131.4077	130.1655	5.1412e-01	4.3017e+00
133	IHT000006	125.1615	127.7006	126.3803	5.2875e-01	4.2904e+00
134	IHT000007	129.6161	132.3505	130.9443	5.2793e-01	4.3040e+00
135	IHT000008	129.8264	132.1702	131.0960	5.1637e-01	4.3045e+00
136	IHT000009	130.6866	133.2257	132.0459	5.0986e-01	4.3074e+00
137	IHT000010	129.9354	132.8651	131.0370	6.2485e-01	4.3043e+00
138	IHT000011	133.9656	137.2859	135.1532	6.4578e-01	4.3170e+00
139	IHT000012	127.8583	130.7880	129.0576	6.2016e-01	4.2983e+00
140	IHT000013	91.3123	94.4373	92.6600	5.5699e-01	4.2034e+00
141	IHT000014	127.4226	130.3523	128.7157	6.0347e-01	4.2973e+00
142	IHT000015	95.3125	98.2422	96.5312	5.7799e-01	4.2121e+00
143	IHT000016	88.8108	91.3499	89.7913	6.0295e-01	4.1972e+00
144	IHT000017	106.2012	109.5215	107.3809	7.4238e-01	4.2383e+00
145	IHT000018	108.2069	110.5507	109.1210	5.8586e-01	4.2427e+00
146	IHT000019	103.9926	105.9458	104.8286	4.0633e-01	4.2319e+00
147	IHT000020	106.9937	108.5562	107.6460	3.4311e-01	4.2390e+00
148	IHT000021	-2.3625	-0.2141	-1.4211	4.9551e-01	4.1000e+00
149	IHT000022	93.1453	94.7078	93.7547	3.8184e-01	4.2058e+00
150	IHT000023	106.2012	107.9590	106.9394	4.1999e-01	4.2372e+00
151	IHT000024	71.1238	72.6863	71.9871	4.0258e-01	4.1627e+00
152	IHT000025	103.3128	105.2659	104.4183	4.3871e-01	4.2309e+00
153	IHT000026	105.2810	107.4294	106.3942	4.8528e-01	4.2358e+00
154	IHT000027	90.0503	92.1988	91.0659	4.5335e-01	4.1999e+00
155	IHT000028	91.7217	94.6514	92.8936	6.4718e-01	4.2039e+00

Test: May08_07

sum1

Date: Tue May 8 12:18:40 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.6415	107.9853	106.6025	6.0982e-01	4.2363e+00
157	IHT000030	107.4369	109.5853	108.5151	5.4282e-01	4.2412e+00
158	IHT000031	106.3815	108.7252	107.4439	5.4699e-01	4.2384e+00
159	IHT000032	107.7712	109.9196	108.7477	5.7993e-01	4.2418e+00
160	IHT000033	107.5796	109.9234	108.6929	5.8026e-01	4.2416e+00
161	IHT000034	93.9679	96.1163	94.8545	5.0565e-01	4.2083e+00
162	IHT000035	124.1850	126.3334	124.9897	5.0012e-01	4.2863e+00
163	IHT000036	92.7772	94.5350	93.4061	4.5385e-01	4.2051e+00

Velocity 1 = 3.4874 (ft/sec) (+/- 14.0590 %)
 Velocity 2 = 3.4954 (ft/sec) (+/- 5.2735 %)
 Pressure drop = -4.7356 (psi)
 Tsat in = 267.8792 (deg F) Tsat out = 274.3622 (deg F)
 Phi inner = 100.6110 (kBtu/hr-ft2) (+/- 1.4133 %)
 Phi outer = 101.1718 (kBtu/hr-ft2) (+/- 1.6185 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.7878	73.2138	72.9199	1.4203e-01	1.9000e+00
1	TRF000002	72.9918	73.6274	73.1995	1.5129e-01	1.9000e+00
2	TFM000001	86.7413	87.5802	87.1522	2.3557e-01	1.9002e+00
3	TIN000001	86.8133	87.4436	87.0864	1.6442e-01	1.9002e+00
4	TRV000001	87.3768	88.3175	87.8995	1.6629e-01	1.9002e+00
5	TSR000001	136.7169	139.6263	138.3547	8.8038e-01	1.9031e+00
6	TAO020136	198.8284	200.2784	199.5053	3.1424e-01	1.9113e+00
7	TAO050136	207.7308	209.2579	208.3536	3.4923e-01	1.9129e+00
8	TAO070136	205.2823	207.5944	206.5045	4.5373e-01	1.9125e+00
9	TAO080136	243.4997	244.3403	243.9474	2.3538e-01	1.9203e+00
10	TAO090136	251.4634	252.4878	251.9366	2.5991e-01	1.9222e+00
11	TAO100136	249.6186	251.6700	250.7043	4.3111e-01	1.9219e+00
12	TAO105136	256.6924	258.4612	257.5935	4.1900e-01	1.9236e+00
13	TAO110136	265.3538	266.8203	266.1612	2.5862e-01	1.9257e+00
14	TAO115136	263.9919	265.8493	264.7313	4.5617e-01	1.9254e+00
15	TAO120136	276.0064	277.0101	276.4154	2.0888e-01	1.9285e+00
16	TAO125136	271.0813	272.6460	272.0276	3.7091e-01	1.9273e+00
17	TAO130136	266.1133	267.2985	266.8209	2.8820e-01	1.9259e+00
18	TAO120048	280.7617	281.5868	281.1796	2.0293e-01	1.9298e+00
19	TAO130048	275.8771	276.4270	276.1818	1.3549e-01	1.9284e+00
20	TAO120224	278.3232	279.5172	278.7053	2.3995e-01	1.9291e+00
21	TAO130224	264.5150	266.3528	265.4557	4.2661e-01	1.9256e+00
22	TAO120312	270.5941	271.7935	271.1403	2.5213e-01	1.9271e+00
23	TAO130312	277.4327	278.1671	277.8914	1.8524e-01	1.9289e+00
24	TRT020000	199.5923	200.8502	200.3389	2.7143e-01	1.9114e+00
25	TRT070000	236.2199	237.2624	236.8333	2.3226e-01	1.9187e+00
26	TRT100000	269.7667	270.5957	270.1832	2.1324e-01	1.9268e+00
27	TRT120000	282.0641	282.9802	282.6062	2.0836e-01	1.9302e+00
28	TRT125000	289.6267	290.4447	290.0623	1.9069e-01	1.9323e+00
29	TRT130000	279.8680	280.5998	280.2856	1.7170e-01	1.9296e+00
30	EMPTY	39.1464	39.8352	39.6056	1.9677e-01	1.9011e+00
31	TAF050136	139.7841	141.9921	140.9524	5.1658e-01	1.9034e+00
32	TAF070136	162.7466	165.5987	163.6481	5.5655e-01	1.9059e+00
33	TAF080136	236.4978	245.7178	240.9410	1.9132e+00	1.9196e+00
34	TAF090136	173.2085	176.2465	175.0553	6.0581e-01	1.9074e+00
35	TAF100136	194.0879	199.5112	195.6817	1.2810e+00	1.9106e+00
36	TAF105136	199.0760	203.2811	201.0069	1.4076e+00	1.9115e+00
37	TAF110136	225.5339	228.4609	227.0983	7.4276e-01	1.9166e+00
38	TAF115136	210.1327	215.5741	212.0441	1.0874e+00	1.9135e+00
39	TAF120136	255.9072	258.7768	257.2738	6.3052e-01	1.9235e+00
40	TAF125136	222.4819	225.8753	223.8702	5.9681e-01	1.9159e+00
41	TAF130136	226.8763	229.0500	227.7877	5.2075e-01	1.9167e+00
42	TAF120048	225.8876	228.0828	226.9878	5.4779e-01	1.9165e+00
43	TAF130048	236.3906	238.4579	237.5373	5.1133e-01	1.9188e+00
44	TAF120224	221.3348	224.0901	222.8631	6.2911e-01	1.9157e+00
45	TAF130224	229.5421	231.9186	230.7324	5.7598e-01	1.9173e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0480	1.9866e-01	1.9010e+00
47	EMPTY	39.3761	40.0646	39.7526	1.3724e-01	1.9011e+00
48	TAI130138	273.9499	275.4231	274.6428	3.5260e-01	1.9280e+00
49	TAI130226	272.5351	273.9117	273.2691	2.9026e-01	1.9276e+00
50	TAI130314	278.0346	279.0472	278.5653	2.4568e-01	1.9291e+00
51	TAI130042	275.2464	276.9951	276.3141	3.7136e-01	1.9285e+00
52	TRR130090	151.3383	154.5211	153.3085	6.7936e-01	1.9047e+00
53	TSI000001	48.0410	48.5827	48.2792	1.4508e-01	1.9003e+00
54	TSI000002	127.0589	128.6817	127.9554	3.6135e-01	1.9023e+00
55	TSO000001	46.2116	47.0827	46.6643	1.9225e-01	1.9004e+00
56	TSO000002	63.9847	64.8381	64.4414	1.8811e-01	1.9000e+00
57	TAF020136	105.1646	108.9014	106.9268	6.7408e-01	1.9009e+00
58	TAF120312	226.6382	229.3792	227.6708	6.1477e-01	1.9167e+00
59	TAF130312	246.7071	250.8075	248.7320	8.2170e-01	1.9214e+00
60	EMPTY	4.4824	4.5264	4.5070	1.0485e-02	0.0000e+00
61	EMPTY	4.4824	4.5117	4.4958	8.6456e-03	0.0000e+00
62	EMPTY	4.4678	4.5020	4.4856	8.8569e-03	0.0000e+00
63	EMPTY	4.4678	4.4922	4.4807	7.7525e-03	0.0000e+00
64	EMPTY	2.0703	2.0850	2.0775	3.5895e-03	0.0000e+00
65	EMPTY	2.0801	2.0947	2.0888	2.4741e-03	0.0000e+00
66	EMPTY	2.0898	2.0996	2.0950	2.8608e-03	0.0000e+00
67	EMPTY	2.0996	2.1045	2.1035	1.9730e-03	0.0000e+00
68	EMPTY	2.1045	2.1094	2.1083	2.0432e-03	0.0000e+00
69	EMPTY	2.1143	2.1191	2.1169	2.4583e-03	0.0000e+00
70	EMPTY	2.1143	2.1289	2.1230	2.4164e-03	0.0000e+00
71	EMPTY	2.1338	2.1387	2.1374	2.1635e-03	0.0000e+00
72	EMPTY	2.1387	2.1436	2.1425	2.0432e-03	0.0000e+00
73	EMPTY	2.1484	2.1533	2.1518	2.3008e-03	0.0000e+00
74	EMPTY	2.1533	2.1631	2.1574	2.4878e-03	0.0000e+00
75	EMPTY	2.1582	2.1680	2.1654	2.8317e-03	0.0000e+00
76	EMPTY	2.1680	2.1729	2.1709	2.4164e-03	0.0000e+00
77	EMPTY	2.1777	2.1826	2.1815	2.0432e-03	0.0000e+00
78	EMPTY	2.1875	2.1973	2.1950	2.8266e-03	0.0000e+00
79	EMPTY	2.2070	2.2119	2.2104	2.3008e-03	0.0000e+00
80	PAN020136	-19.0440	-15.9923	-17.3610	8.4991e-01	8.7108e-01
81	PAN050136	-31.8536	-30.4803	-31.0998	3.6529e-01	1.6818e+00
82	PAN070136	-24.0411	-20.4553	-22.8372	8.1478e-01	8.7187e-01
83	PAN080136	-12.7086	-1.1882	-9.2433	2.1999e+00	8.7031e-01
84	PAN090136	-12.7703	-2.8521	-10.2968	2.1376e+00	8.7038e-01
85	PAN100136	-12.3097	-6.9691	-10.5747	8.4983e-01	8.7040e-01
86	PAN105136	-7.7034	1.0704	-5.1796	1.4417e+00	8.7010e-01
87	PAN110136	-6.2524	-3.0480	-4.7341	6.8139e-01	8.7008e-01
88	PAN115136	-6.2333	-3.9445	-4.7791	4.7793e-01	8.7008e-01
89	PAN120136	-6.8011	-3.6730	-5.3057	6.2039e-01	8.7010e-01
90	PAN125136	-5.5642	-2.3599	-4.5144	5.7395e-01	8.7007e-01
91	PAN130136	-6.0470	-3.6819	-4.8721	3.9024e-01	8.7009e-01
92	PAN120048	-11.2533	-9.5748	-10.4232	3.8431e-01	8.7039e-01
93	PAN130048	-11.5819	-9.7508	-10.5901	2.6786e-01	8.7040e-01
94	PAN120224	-10.4961	-8.3599	-9.7408	4.2723e-01	8.7034e-01
95	PAN130224	-10.2438	-9.1756	-9.8180	2.0454e-01	8.7035e-01
96	PAN120312	-10.8893	-8.6005	-9.8731	4.3170e-01	8.7035e-01
97	PAN130312	-10.2673	-8.6651	-9.5822	4.2366e-01	8.7033e-01
98	PAB000136	40.0857	40.4977	40.3439	8.2075e-02	5.8870e-01
99	PAB100136	43.9046	44.0877	43.9577	4.8374e-02	5.9032e-01
100	PAB125136	44.8297	45.0128	44.9377	4.7841e-02	5.9078e-01

Test: May08_07

sum2

Date: Tue May 8 12:18:40 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7254	40.3357	40.0769	1.3427e-01	7.5666e-01
102	PRV0000001	15.3654	15.4875	15.4704	4.2787e-02	7.5100e-01
103	PSR0000001	45.0731	45.1952	45.1268	6.1209e-02	7.5844e-01
104	PFM0000001	1.6444	1.9191	1.7909	6.6690e-02	5.0002e-01
105	PAN000136	-136.5103	-128.2706	-131.1087	1.5585e+00	4.9309e+00
106	PFM0000002	1.7629	1.8300	1.7994	1.6148e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0044	1.4797e-03	0.0000e+00
108	EMPTY	-7.5537	-6.6943	-7.1316	2.3099e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8821e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0017	2.3365e-03	0.0000e+00
112	VPW0000001	102.1447	102.9259	102.5080	1.8512e-01	1.0170e+00
113	VPW0000002	119.9069	120.2975	120.0866	1.2992e-01	1.0841e+00
114	VPW0000003	147.9380	148.9145	148.3716	2.0988e-01	1.2036e+00
115	VPW0000004	105.1006	106.0772	105.5615	2.0790e-01	1.0282e+00
116	VPW0000005	139.7987	140.9706	140.3495	2.3901e-01	1.1684e+00
117	VPW0000006	146.7398	147.5211	147.1304	1.8924e-01	1.1981e+00
118	IPW0000001	558.2203	564.0773	561.3051	1.6306e+00	9.2343e+00
119	IPW0000002	1281.7590	1291.5154	1285.8956	1.9962e+00	1.2993e+01
120	IPW0000003	1303.8750	1317.5250	1311.0902	2.6792e+00	1.3149e+01
121	IPW0000004	379.7513	384.1458	382.1341	9.2876e-01	3.6213e+00
122	IPW0000005	252.6884	254.6413	253.5087	5.0720e-01	2.8304e+00
123	IPW0000006	264.5263	266.4795	265.8642	5.0117e-01	2.9002e+00
124	EMPTY	-0.0293	-0.0146	-0.0227	4.3851e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0162	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0186	3.6911e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0172	3.4513e-03	0.0000e+00
128	IHT0000001	131.2613	133.6050	132.4644	6.1048e-01	4.3087e+00
129	IHT0000002	131.6632	134.0069	132.8467	5.9635e-01	4.3099e+00
130	IHT0000003	130.7917	133.5261	132.0262	5.9115e-01	4.3073e+00
131	IHT0000004	131.2876	134.4126	132.4868	6.2889e-01	4.3087e+00
132	IHT0000005	128.8687	131.6031	130.0562	6.2868e-01	4.3013e+00
133	IHT0000006	124.9662	127.7006	126.2201	5.7330e-01	4.2899e+00
134	IHT0000007	129.4208	132.3505	130.7959	5.9837e-01	4.3036e+00
135	IHT0000008	129.6311	132.5608	131.0101	5.8979e-01	4.3042e+00
136	IHT0000009	130.4913	133.8116	131.9249	5.9922e-01	4.3070e+00
137	IHT0000010	129.7401	132.6698	130.9862	6.0988e-01	4.3042e+00
138	IHT0000011	133.7703	136.5046	135.0243	5.4403e-01	4.3166e+00
139	IHT0000012	127.6630	130.5927	128.9287	5.6392e-01	4.2979e+00
140	IHT0000013	91.5077	94.0467	92.6326	5.1533e-01	4.2033e+00
141	IHT0000014	127.6179	130.1570	128.6219	4.7517e-01	4.2970e+00
142	IHT0000015	95.3125	98.2422	96.5469	5.4167e-01	4.2121e+00
143	IHT0000016	88.6155	90.7640	89.6546	5.0446e-01	4.1969e+00
144	IHT0000017	105.4199	108.1543	106.5137	6.5554e-01	4.2361e+00
145	IHT0000018	107.6210	109.7694	108.7264	5.4763e-01	4.2417e+00
146	IHT0000019	103.7973	105.9458	104.6763	4.5034e-01	4.2315e+00
147	IHT0000020	106.7984	108.9468	107.5249	4.8172e-01	4.2387e+00
148	IHT0000021	-2.3625	0.1765	-1.4602	5.9174e-01	4.1000e+00
149	IHT0000022	92.5594	94.5125	93.4617	4.7333e-01	4.2052e+00
150	IHT0000023	106.0059	108.5449	106.8340	5.4471e-01	4.2369e+00
151	IHT0000024	71.1238	73.2722	71.8543	5.1571e-01	4.1625e+00
152	IHT0000025	103.3128	105.8519	104.2972	5.4954e-01	4.2306e+00
153	IHT0000026	105.2810	107.6247	106.2145	5.2540e-01	4.2353e+00
154	IHT0000027	90.0503	91.8082	90.7847	4.8897e-01	4.1993e+00
155	IHT0000028	91.3311	94.0655	92.7139	5.6750e-01	4.2035e+00

Test: May08_07

sum2

Date: Tue May 8 12:18:40 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2509	107.7900	106.5088	5.6931e-01	4.2361e+00
157	IHT000030	107.0463	109.7807	108.4409	6.1258e-01	4.2410e+00
158	IHT000031	105.9908	108.7252	107.3423	5.5079e-01	4.2382e+00
159	IHT000032	107.3806	109.7243	108.6110	5.5419e-01	4.2414e+00
160	IHT000033	107.3843	109.7281	108.5288	5.4820e-01	4.2412e+00
161	IHT000034	93.5772	95.9210	94.9131	4.5739e-01	4.2084e+00
162	IHT000035	123.7943	125.9428	125.0131	4.6280e-01	4.2864e+00
163	IHT000036	91.9959	94.3397	93.4530	4.7385e-01	4.2052e+00

Test: May08_07 dif Date: Tue May 8 12:18:40 1990 Page: 1

Velocity 1 = 0.000000 (ft/sec)
Velocity 2 = 0.008900 (ft/sec)
Pressure Drop = 0.018900 (psi)
Tsat in = 0.182495 (deg F) Tsat out = 0.177673 (deg F)
Phi inner = 1.621101 (kBtu/hr-ft2) Phi outer = 0.918503 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1577	0.2167
1	TRF000002	0.1187	0.1624
2	TFM000001	0.0528	0.0606
3	TIN000001	0.0651	0.0748
4	TRV000001	0.1783	0.2033
5	TSR000001	2.3151	1.7018
6	TAO020136	0.6668	0.3331
7	TAO050136	0.2910	0.1395
8	TAO070136	0.8691	0.4226
9	TAO080136	0.0158	0.0065
10	TAO090136	0.0722	0.0287
11	TAC100136	0.3371	0.1343
12	TAO105136	0.0912	0.0354
13	TAO110136	0.1835	0.0689
14	TAO115136	0.5148	0.1941
15	TAO120136	0.0188	0.0068
16	TAO125136	0.1927	0.0708
17	TAO130136	0.1053	0.0395
18	TAO120048	0.2908	0.1033
19	TAO130048	0.2429	0.0879
20	TAO120224	0.3689	0.1322
21	TAO130224	0.3563	0.1341
22	TAO120312	0.3564	0.1316
23	TAO130312	0.2615	0.0940
24	TRT020000	0.2073	0.1034
25	TRT070000	0.2301	0.0971
26	TRT100000	0.3106	0.1148
27	TRT120000	0.1333	0.0471
28	TRT125000	0.4212	0.1450
29	TRT130000	0.3048	0.1086
30	EMPTY	0.0183	0.0462
31	TAF050136	0.2340	0.1657
32	TAF070136	0.1270	0.0775
33	TAF080136	0.8211	0.3420
34	TAF090136	0.8765	0.5032
35	TAF100136	0.0868	0.0444
36	TAF105136	0.4694	0.2341
37	TAF110136	0.1484	0.0653
38	TAF115136	0.0208	0.0098
39	TAF120136	0.1235	0.0480
40	TAF125136	0.1591	0.0710
41	TAF130136	0.1753	0.0769
42	TAF120048	0.2432	0.1070
43	TAF130048	0.4714	0.1981
44	TAF120224	0.3553	0.1592
45	TAF130224	0.3827	0.1656

#	Name	Abs Diff	%Diff
46	EMPTY	0.0092	0.0242
47	EMPTY	0.0826	0.2074
48	TAI130138	0.0827	0.0301
49	TAI130226	0.2030	0.0742
50	TAI130314	0.0572	0.0205
51	TAI130042	0.7309	0.2652
52	TRR130090	8.4083	5.8028
53	TSI000001	0.1280	0.2658
54	TSI000002	3.2247	2.5853
55	TSC000001	0.0453	0.0972
56	TSC000002	0.0708	0.1100
57	TAF020136	0.0775	0.0724
58	TAF120312	0.3381	0.1483
59	TAF130312	0.4114	0.1651
60	EMPTY	0.0125	0.2766
61	EMPTY	0.0107	0.2374
62	EMPTY	0.0091	0.2025
63	EMPTY	0.0089	0.1982
64	EMPTY	0.0046	0.2209
65	EMPTY	0.0036	0.1721
66	EMPTY	0.0038	0.1811
67	EMPTY	0.0038	0.1803
68	EMPTY	0.0033	0.1563
69	EMPTY	0.0039	0.1839
70	EMPTY	0.0046	0.2162
71	EMPTY	0.0046	0.2148
72	EMPTY	0.0045	0.2096
73	EMPTY	0.0046	0.2133
74	EMPTY	0.0053	0.2451
75	EMPTY	0.0056	0.2579
76	EMPTY	0.0058	0.2665
77	EMPTY	0.0058	0.2652
78	EMPTY	0.0057	0.2590
79	EMPTY	0.0062	0.2797
80	PAN020136	0.0733	0.4240
81	PAN050136	0.1434	0.4590
82	PAN070136	0.2350	1.0397
83	PAN080136	1.1658	11.1998
84	PAN090136	0.3357	3.1573
85	PAN100136	0.5127	5.0954
86	PAN105136	0.1785	3.5692
87	PAN110136	0.2930	5.8284
88	PAN115136	0.2914	6.4933
89	PAN120136	0.1342	2.5950
90	PAN125136	0.1999	4.2403
91	PAN130136	0.0458	0.9490
92	PAN120048	0.0458	0.4375
93	PAN130048	0.0305	0.2872
94	PAN120224	0.1007	1.0446
95	PAN130224	0.0366	0.3742
96	PAN120312	0.1236	1.2678
97	PAN130312	0.1968	2.0125
98	PAB000136	0.1236	0.3054
99	PAB100136	0.1400	0.3175
100	PAB125136	0.1319	0.2927

Test: May08_07

dif

Date: Tue May 8 12:18:40 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.4175	1.0310
102	PRV000001	0.0244	0.1580
103	PSR000001	0.1782	0.3933
104	PFM000001	0.0000	0.0000
105	PAN000136	0.5219	0.3965
106	PFM000002	0.0094	0.5197
107	EMPTY	0.0004	8.3333
108	EMPTY	0.0451	0.6364
109	EMPTY	0.0013	185.7143
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0027	61.3636
112	VPW000001	0.2226	0.2167
113	VPW000002	0.1210	0.1007
114	VPW000003	0.0781	0.0526
115	VPW000004	0.0743	0.0703
116	VPW000005	0.1836	0.1306
117	VPW000006	0.1875	0.1273
118	IPW000001	14.0961	2.5760
119	IPW000002	29.0739	2.2110
120	IPW000003	22.4249	1.6816
121	IPW000004	0.2051	0.0536
122	IPW000005	1.3475	0.5287
123	IPW000006	1.9239	0.7184
124	EMPTY	0.0005	2.1552
125	EMPTY	0.0009	5.8824
126	EMPTY	0.0009	4.6154
127	EMPTY	0.0006	3.3708
128	IHT000001	0.0820	0.0619
129	IHT000002	0.1172	0.0881
130	IHT000003	0.0391	0.0296
131	IHT000004	0.1016	0.0766
132	IHT000005	0.1093	0.0840
133	IHT000006	0.1602	0.1268
134	IHT000007	0.1484	0.1133
135	IHT000008	0.0859	0.0655
136	IHT000009	0.1210	0.0916
137	IHT000010	0.0508	0.0388
138	IHT000011	0.1289	0.0954
139	IHT000012	0.1289	0.0999
140	IHT000013	0.0274	0.0296
141	IHT000014	0.0938	0.0729
142	IHT000015	0.0157	0.0163
143	IHT000016	0.1367	0.1522
144	IHT000017	0.8672	0.8076
145	IHT000018	0.3946	0.3616
146	IHT000019	0.1523	0.1453
147	IHT000020	0.1211	0.1125
148	IHT000021	0.0391	2.7514
149	IHT000022	0.2930	0.3125
150	IHT000023	0.1054	0.0986
151	IHT000024	0.1328	0.1845
152	IHT000025	0.1211	0.1160
153	IHT000026	0.1797	0.1689
154	IHT000027	0.2812	0.3088
155	IHT000028	0.1797	0.1935

Test: May08_07 dif Date: Tue May 8 12:18:40 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0937	0.0879
157	IHT000030	0.0742	0.0684
158	IHT000031	0.1016	0.0946
159	IHT000032	0.1367	0.1257
160	IHT000033	0.1641	0.1510
161	IHT000034	0.0586	0.0618
162	IHT000035	0.0234	0.0187
163	IHT000036	0.0469	0.0502

Velocity 1 = 3.3091 (ft/sec) (+/- 15.6386 %)
 Velocity 2 = 3.3312 (ft/sec) (+/- 5.7691 %)
 Pressure drop = -4.7459 (psi)
 Tsat in = 267.8914 (deg F) Tsat out = 274.4017 (deg F)
 Phi inner = 101.0474 (kBtu/hr-ft2) (+/- 1.4121 %)
 Phi outer = 101.7762 (kBtu/hr-ft2) (+/- 1.6166 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.7878	73.6398	73.0775	1.9608e-01	1.9000e+00
1	TRF000002	73.2037	73.6274	73.3478	1.1676e-01	1.9000e+00
2	TFM000001	86.8467	87.7902	87.3830	2.2575e-01	1.9002e+00
3	TIN000001	86.9181	87.7590	87.3259	1.6939e-01	1.9002e+00
4	TRV000001	87.7950	88.7359	88.1758	1.8630e-01	1.9002e+00
5	TSR000001	140.6272	142.6315	141.5129	5.4928e-01	1.9034e+00
6	TAO020136	203.1737	204.5231	203.8251	3.0579e-01	1.9120e+00
7	TAO050136	212.8755	214.2074	213.5529	3.7122e-01	1.9138e+00
8	TAO070136	211.2489	213.4565	212.2898	5.1646e-01	1.9136e+00
9	TAO080136	249.0801	250.1035	249.6759	2.1892e-01	1.9216e+00
10	TAO090136	257.5045	258.6178	258.0797	2.2650e-01	1.9237e+00
11	TAO100136	257.0650	258.8290	257.8116	4.1730e-01	1.9236e+00
12	TAO105136	263.8481	265.4241	264.6158	3.0890e-01	1.9253e+00
13	TAO110136	272.5782	273.8568	273.2819	2.8950e-01	1.9276e+00
14	TAO115136	269.4656	271.5023	270.6469	4.1370e-01	1.9269e+00
15	TAO120136	281.8315	282.8355	282.1570	2.3078e-01	1.9301e+00
16	TAO125136	275.8613	277.7886	276.7394	4.7319e-01	1.9286e+00
17	TAO130136	271.5686	272.5716	272.1200	2.3164e-01	1.9273e+00
18	TAO120048	285.8839	286.7072	286.2828	1.8359e-01	1.9313e+00
19	TAO130048	281.1820	281.9148	281.5695	1.5653e-01	1.9299e+00
20	TAO120224	283.0007	284.3746	283.6564	2.4921e-01	1.9305e+00
21	TAO130224	271.1124	272.4817	271.6780	3.1458e-01	1.9272e+00
22	TAO120312	276.1240	277.1363	276.5693	2.1951e-01	1.9285e+00
23	TAO130312	283.3797	284.0214	283.6911	1.4904e-01	1.9305e+00
24	TRT020000	203.0725	204.0379	203.6438	2.5334e-01	1.9120e+00
25	TRT070000	242.2769	243.4091	242.8052	2.4636e-01	1.9200e+00
26	TRT100000	274.7317	276.3853	275.7714	3.3420e-01	1.9283e+00
27	TRT120000	285.7226	286.6368	286.1284	1.8308e-01	1.9312e+00
28	TRT125000	292.7057	293.7047	293.2684	1.8785e-01	1.9333e+00
29	TRT130000	285.2576	285.9896	285.6487	1.7422e-01	1.9311e+00
30	EMPTY	39.1464	40.0646	39.6011	1.8253e-01	1.9011e+00
31	TAF050136	142.4915	145.1947	143.7018	5.8047e-01	1.9037e+00
32	TAF070136	165.8949	169.0360	167.7164	6.5813e-01	1.9064e+00
33	TAF080136	243.7687	248.6906	246.2325	1.2725e+00	1.9208e+00
34	TAF090136	178.1048	182.2066	179.2974	9.6321e-01	1.9080e+00
35	TAF100136	199.2213	202.0226	200.5474	6.3425e-01	1.9114e+00
36	TAF105136	204.0438	206.9049	205.3150	7.3955e-01	1.9123e+00
37	TAF110136	234.1103	236.6480	235.4001	5.5355e-01	1.9183e+00
38	TAF115136	216.1458	218.9072	217.4756	6.3532e-01	1.9146e+00
39	TAF120136	260.9042	262.3847	261.6740	4.3370e-01	1.9246e+00
40	TAF125136	227.8516	231.1400	229.7010	7.2818e-01	1.9171e+00
41	TAF130136	232.9163	234.8001	233.7908	3.6103e-01	1.9180e+00
42	TAF120048	232.3699	234.4602	233.2327	4.2231e-01	1.9179e+00
43	TAF130048	243.8036	245.3013	244.6873	3.8069e-01	1.9204e+00
44	TAF120224	227.6945	230.2506	228.9936	6.0389e-01	1.9170e+00
45	TAF130224	236.4719	238.3657	237.4155	4.7277e-01	1.9188e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0664	2.0904e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8352	1.3114e-01	1.9011e+00
48	TAI130138	276.6194	277.8152	277.2744	2.9299e-01	1.9287e+00
49	TAI130226	276.0194	277.0285	276.4967	2.2465e-01	1.9285e+00
50	TAI130314	282.0821	283.2761	282.7214	3.0879e-01	1.9302e+00
51	TAI130042	279.2929	280.3951	279.8953	2.3850e-01	1.9295e+00
52	TRR130090	146.1521	149.9453	147.9299	8.4413e-01	1.9041e+00
53	TSI000001	47.7168	48.6908	48.1933	2.1876e-01	1.9003e+00
54	TSI000002	128.4784	129.8972	129.1794	3.3363e-01	1.9024e+00
55	TSO000001	46.1019	47.0816	46.5809	2.1553e-01	1.9004e+00
56	TSO000002	64.7314	65.5865	65.0352	2.3568e-01	1.9000e+00
57	TAF020136	106.0995	109.7308	107.6488	7.0161e-01	1.9010e+00
58	TAF120312	233.6237	235.6956	234.3927	5.4814e-01	1.9181e+00
59	TAF130312	256.3826	260.2749	258.1555	8.4344e-01	1.9237e+00
60	EMPTY	4.7217	4.7705	4.7455	1.1101e-02	0.0000e+00
61	EMPTY	4.7119	4.7461	4.7308	8.3711e-03	0.0000e+00
62	EMPTY	4.7070	4.7314	4.7168	7.0449e-03	0.0000e+00
63	EMPTY	4.6973	4.7168	4.7084	5.4960e-03	0.0000e+00
64	EMPTY	2.1729	2.1826	2.1781	2.7621e-03	0.0000e+00
65	EMPTY	2.1826	2.1973	2.1872	2.4976e-03	0.0000e+00
66	EMPTY	2.1875	2.1973	2.1931	2.2080e-03	0.0000e+00
67	EMPTY	2.1973	2.2021	2.2006	2.3008e-03	0.0000e+00
68	EMPTY	2.2021	2.2070	2.2045	2.4642e-03	0.0000e+00
69	EMPTY	2.2119	2.2266	2.2128	2.5515e-03	0.0000e+00
70	EMPTY	2.2168	2.2217	2.2188	2.4164e-03	0.0000e+00
71	EMPTY	2.2314	2.2363	2.2321	1.7115e-03	0.0000e+00
72	EMPTY	2.2314	2.2412	2.2365	2.4083e-03	0.0000e+00
73	EMPTY	2.2412	2.2510	2.2450	2.2689e-03	0.0000e+00
74	EMPTY	2.2461	2.2559	2.2506	2.3839e-03	0.0000e+00
75	EMPTY	2.2510	2.2607	2.2576	2.5648e-03	0.0000e+00
76	EMPTY	2.2559	2.2656	2.2630	2.6488e-03	0.0000e+00
77	EMPTY	2.2705	2.2754	2.2726	2.4344e-03	0.0000e+00
78	EMPTY	2.2852	2.2900	2.2860	1.8950e-03	0.0000e+00
79	EMPTY	2.2998	2.3047	2.3015	2.3365e-03	0.0000e+00
80	PAN020136	-19.0440	-13.8560	-16.2547	1.3919e+00	8.7095e-01
81	PAN050136	-33.2269	-32.0061	-32.7508	2.6988e-01	1.6820e+00
82	PAN070136	-22.3627	-21.0657	-21.6196	3.4217e-01	8.7168e-01
83	PAN080136	-12.0219	-4.9266	-10.9340	9.4814e-01	8.7043e-01
84	PAN090136	-12.7703	-6.7431	-10.5532	7.9905e-01	8.7040e-01
85	PAN100136	-12.3859	-9.1816	-10.2482	5.7124e-01	8.7038e-01
86	PAN105136	-7.2457	-4.1939	-5.4497	5.8839e-01	8.7011e-01
87	PAN110136	-6.1761	-2.7428	-4.8028	7.3243e-01	8.7008e-01
88	PAN115136	-6.2333	-3.9445	-5.1606	5.6516e-01	8.7010e-01
89	PAN120136	-5.6567	-3.6730	-4.8175	4.8498e-01	8.7008e-01
90	PAN125136	-4.8776	-3.5043	-4.4030	3.1411e-01	8.7007e-01
91	PAN130136	-5.4367	-4.7500	-5.1193	1.3817e-01	8.7009e-01
92	PAN120048	-10.7955	-8.7356	-10.3438	3.8775e-01	8.7038e-01
93	PAN130048	-10.9715	-10.5138	-10.7655	1.0137e-01	8.7042e-01
94	PAN120224	-10.0384	-9.1991	-9.6066	2.4883e-01	8.7033e-01
95	PAN130224	-10.0912	-9.4045	-9.8257	1.4397e-01	8.7035e-01
96	PAN120312	-9.7449	-8.3716	-9.2338	3.2194e-01	8.7031e-01
97	PAN130312	-10.1910	-9.7332	-9.9194	1.0472e-01	8.7035e-01
98	PAB000136	39.8568	40.4977	40.3521	1.0075e-01	5.8871e-01
99	PAB100136	43.9046	44.0419	43.9860	4.1658e-02	5.9033e-01
100	PAB125136	44.8755	45.0586	44.9670	4.3378e-02	5.9079e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7254	40.4578	40.1282	1.2145e-01	7.5668e-01
102	PRV000001	15.3654	15.6096	15.4875	2.4662e-02	7.5100e-01
103	PSR000001	45.0731	45.1952	45.1927	1.7263e-02	7.5846e-01
104	PFM000001	1.4613	1.7360	1.6078	6.4074e-02	5.0002e-01
105	PAN000136	-137.8836	-127.8128	-131.3925	1.9893e+00	4.9310e+00
106	PFM000002	1.5783	1.6957	1.6300	3.0101e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	-0.0042	1.9754e-03	0.0000e+00
108	EMPTY	-7.4512	-6.6895	-7.0166	2.1267e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0001	1.2041e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0018	2.3675e-03	0.0000e+00
112	VPW000001	102.3400	102.9259	102.6720	1.5906e-01	1.0176e+00
113	VPW000002	120.1022	120.4928	120.2272	1.0992e-01	1.0846e+00
114	VPW000003	148.1333	148.7192	148.4888	1.4600e-01	1.2041e+00
115	VPW000004	105.2960	106.0772	105.6631	1.9587e-01	1.0286e+00
116	VPW000005	139.9940	140.7752	140.4511	1.9969e-01	1.1689e+00
117	VPW000006	147.1304	147.7164	147.3491	1.4573e-01	1.1991e+00
118	IPW000001	554.3156	562.1250	558.8061	1.6850e+00	9.2249e+00
119	IPW000002	1297.3693	1307.1256	1300.1012	1.6254e+00	1.3080e+01
120	IPW000003	1311.6750	1321.4250	1316.1207	2.1949e+00	1.3180e+01
121	IPW000004	379.7513	383.6576	381.3235	9.6801e-01	3.6159e+00
122	IPW000005	252.6884	254.6413	253.6259	4.2814e-01	2.8310e+00
123	IPW000006	265.0146	267.4560	266.2353	4.9570e-01	2.9024e+00
124	EMPTY	-0.0293	-0.0146	-0.0226	3.9323e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0098	-0.0148	2.7832e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.3728e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0185	3.5962e-03	0.0000e+00
128	IHT000001	131.4566	133.8003	132.6128	6.0211e-01	4.3091e+00
129	IHT000002	132.0538	134.0069	133.1045	5.2776e-01	4.3106e+00
130	IHT000003	130.9871	133.3308	132.2450	5.5686e-01	4.3080e+00
131	IHT000004	131.4829	133.6313	132.8071	5.3712e-01	4.3097e+00
132	IHT000005	129.2593	131.0171	130.2788	4.9645e-01	4.3020e+00
133	IHT000006	125.3568	127.7006	126.5795	5.4933e-01	4.2909e+00
134	IHT000007	129.8114	131.9599	130.9951	5.3585e-01	4.3042e+00
135	IHT000008	129.8264	132.1702	131.1429	5.5637e-01	4.3046e+00
136	IHT000009	130.6866	133.2257	132.0186	5.7003e-01	4.3073e+00
137	IHT000010	130.1307	132.0838	131.1464	4.3762e-01	4.3046e+00
138	IHT000011	134.3562	136.1140	135.2391	4.3088e-01	4.3173e+00
139	IHT000012	128.0536	129.8114	129.0771	4.2784e-01	4.2984e+00
140	IHT000013	91.8983	93.6561	92.7498	4.4426e-01	4.2036e+00
141	IHT000014	127.8132	129.5711	128.7079	4.3778e-01	4.2973e+00
142	IHT000015	95.8984	97.6562	96.6328	4.0541e-01	4.2123e+00
143	IHT000016	89.0061	90.7640	89.7561	4.0503e-01	4.1971e+00
144	IHT000017	105.2246	107.9590	106.3965	5.9451e-01	4.2358e+00
145	IHT000018	107.8163	109.9647	108.7303	5.2858e-01	4.2417e+00
146	IHT000019	103.7973	105.3598	104.6294	4.4610e-01	4.2314e+00
147	IHT000020	106.6031	108.3609	107.4312	4.4039e-01	4.2384e+00
148	IHT000021	-2.5579	-0.6047	-1.6125	4.8866e-01	4.1000e+00
149	IHT000022	92.5594	94.3172	93.4461	4.1425e-01	4.2051e+00
150	IHT000023	105.8105	107.7637	106.7793	4.0618e-01	4.2368e+00
151	IHT000024	70.9285	72.8816	71.8660	3.9459e-01	4.1625e+00
152	IHT000025	103.3128	105.4613	104.2933	4.1289e-01	4.2306e+00
153	IHT000026	105.2810	107.4294	106.2106	3.9372e-01	4.2353e+00
154	IHT000027	89.8550	91.8082	90.8355	3.7119e-01	4.1994e+00
155	IHT000028	91.3311	94.2608	92.7451	5.9785e-01	4.2036e+00

Test: May08_08

sum1

Date: Tue May 8 12:36:25 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2509	108.3759	106.5361	6.2899e-01	4.2362e+00
157	IHT000030	107.4369	110.3666	108.4877	6.2001e-01	4.2411e+00
158	IHT000031	106.3815	109.3111	107.4283	6.1226e-01	4.2384e+00
159	IHT000032	107.5759	110.1149	108.6969	6.1360e-01	4.2416e+00
160	IHT000033	107.5796	110.1187	108.6343	6.0102e-01	4.2415e+00
161	IHT000034	93.9679	96.5069	94.9717	5.4962e-01	4.2086e+00
162	IHT000035	123.9896	126.3334	125.0249	4.9007e-01	4.2864e+00
163	IHT000036	92.7772	94.7303	93.5389	4.9951e-01	4.2053e+00

Velocity 1 = 3.3473 (ft/sec) (+/- 15.2775 %)
 Velocity 2 = 3.3351 (ft/sec) (+/- 5.7561 %)
 Pressure drop = -4.7006 (psi)
 Tsat in = 267.9401 (deg F) Tsat out = 274.3696 (deg F)
 Phi inner = 101.3400 (kBtu/hr-ft2) (+/- 1.4112 %)
 Phi outer = 101.5313 (kBtu/hr-ft2) (+/- 1.6179 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	72.7878	73.4268	73.0946	1.7300e-01	1.9000e+00
1	TRF000002	73.2037	73.6274	73.3563	1.2137e-01	1.9000e+00
2	TFM000001	86.7413	87.5808	87.2449	2.3097e-01	1.9002e+00
3	TIN000001	86.9181	87.6538	87.2713	1.6823e-01	1.9002e+00
4	TRV000001	87.6903	88.5279	88.2010	1.8368e-01	1.9002e+00
5	TSR000001	140.2273	142.6297	141.3929	5.8901e-01	1.9034e+00
6	TAO020136	202.4983	203.9447	203.1658	3.1037e-01	1.9119e+00
7	TAO050136	212.0216	214.1115	213.0777	3.9168e-01	1.9137e+00
8	TAO070136	210.7686	213.2641	212.1285	5.7997e-01	1.9136e+00
9	TAO080136	248.8944	249.9179	249.4160	2.1842e-01	1.9216e+00
10	TAO090136	257.4111	258.5246	257.8794	2.2800e-01	1.9236e+00
11	TAO100136	256.0427	258.1795	256.9797	5.1557e-01	1.9234e+00
12	TAO105136	263.5696	265.7023	264.4972	5.3111e-01	1.9253e+00
13	TAO110136	272.3953	273.9467	273.1289	3.2082e-01	1.9276e+00
14	TAO115136	269.8361	271.5944	270.5876	3.8079e-01	1.9269e+00
15	TAO120136	281.4680	282.3789	281.9026	2.0042e-01	1.9300e+00
16	TAO125136	275.6783	277.3311	276.5780	4.3099e-01	1.9285e+00
17	TAO130136	271.3870	272.4827	271.9496	2.0525e-01	1.9273e+00
18	TAO120048	285.6104	286.3415	286.0234	2.0001e-01	1.9312e+00
19	TAO130048	280.9073	281.6403	281.2920	1.8305e-01	1.9298e+00
20	TAO120224	282.8175	284.0085	283.3927	2.6559e-01	1.9304e+00
21	TAO130224	270.8351	272.2089	271.4369	3.1757e-01	1.9271e+00
22	TAO120312	275.6635	276.9524	276.2271	2.3421e-01	1.9284e+00
23	TAO130312	283.0143	283.6550	283.3807	1.5799e-01	1.9304e+00
24	TRT020000	202.9759	204.0375	203.5819	2.8722e-01	1.9120e+00
25	TRT070000	241.9937	243.2203	242.6238	2.4065e-01	1.9200e+00
26	TRT100000	274.3643	275.4678	274.9785	2.5545e-01	1.9281e+00
27	TRT120000	285.4481	286.4538	286.0042	1.9794e-01	1.9312e+00
28	TRT125000	292.6162	293.5224	293.0368	2.1341e-01	1.9332e+00
29	TRT130000	285.0751	285.7154	285.3387	1.4844e-01	1.9310e+00
30	EMPTY	39.1464	39.8352	39.4495	2.4297e-01	1.9010e+00
31	TAF050136	142.7926	144.9948	143.7820	4.9764e-01	1.9037e+00
32	TAF070136	166.2872	168.9358	167.4025	5.8708e-01	1.9064e+00
33	TAF080136	243.4891	249.5253	245.9761	1.5926e+00	1.9207e+00
34	TAF090136	178.3991	181.5235	179.9655	9.4443e-01	1.9081e+00
35	TAF100136	199.5117	205.3968	201.8792	1.6192e+00	1.9117e+00
36	TAF105136	204.0443	209.4720	205.9510	1.5891e+00	1.9124e+00
37	TAF110136	233.5468	237.5848	235.3362	7.5139e-01	1.9183e+00
38	TAF115136	216.4315	219.2865	217.6697	7.0061e-01	1.9146e+00
39	TAF120136	260.4427	262.3847	261.6556	4.2528e-01	1.9246e+00
40	TAF125136	228.0381	231.7977	229.9753	7.3946e-01	1.9172e+00
41	TAF130136	232.6336	234.8947	233.8511	4.7437e-01	1.9180e+00
42	TAF120048	232.1796	233.7959	233.1414	3.7908e-01	1.9178e+00
43	TAF130048	243.6163	245.3953	244.6012	4.0349e-01	1.9204e+00
44	TAF120224	227.5051	230.2506	228.9746	5.6935e-01	1.9170e+00
45	TAF130224	236.2824	238.5549	237.3511	5.3936e-01	1.9188e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0526	1.8903e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8673	1.0377e-01	1.9011e+00
48	TAI130138	276.5278	277.8151	277.2192	2.6549e-01	1.9287e+00
49	TAI130226	275.7453	277.0276	276.4418	2.6754e-01	1.9285e+00
50	TAI130314	282.0821	283.2761	282.8095	2.9503e-01	1.9303e+00
51	TAI130042	279.2929	280.3950	279.9137	2.5414e-01	1.9295e+00
52	TRR130090	143.0504	145.6524	144.4922	5.0318e-01	1.9037e+00
53	TSI000001	47.7168	48.5834	48.2496	1.8536e-01	1.9003e+00
54	TSI000002	129.2884	130.4028	129.7786	2.9947e-01	1.9024e+00
55	TSO000001	46.1019	46.9728	46.5154	2.2438e-01	1.9004e+00
56	TSO000002	64.4112	65.3727	64.9456	2.2839e-01	1.9000e+00
57	TAF020136	106.4119	109.3167	107.9019	7.2555e-01	1.9010e+00
58	TAF120312	233.2473	235.6020	234.2911	5.7802e-01	1.9181e+00
59	TAF130312	254.8050	260.6451	258.1108	1.2094e+00	1.9237e+00
60	EMPTY	4.7070	4.7754	4.7462	2.0515e-02	0.0000e+00
61	EMPTY	4.7021	4.7559	4.7327	1.5992e-02	0.0000e+00
62	EMPTY	4.6973	4.7363	4.7198	1.2933e-02	0.0000e+00
63	EMPTY	4.6924	4.7266	4.7134	1.0264e-02	0.0000e+00
64	EMPTY	2.1729	2.1826	2.1796	3.5417e-03	0.0000e+00
65	EMPTY	2.1826	2.1924	2.1891	3.3366e-03	0.0000e+00
66	EMPTY	2.1875	2.2021	2.1955	3.9162e-03	0.0000e+00
67	EMPTY	2.1973	2.2070	2.2028	2.9611e-03	0.0000e+00
68	EMPTY	2.2021	2.2119	2.2063	3.8219e-03	0.0000e+00
69	EMPTY	2.2119	2.2217	2.2146	2.9938e-03	0.0000e+00
70	EMPTY	2.2168	2.2266	2.2214	3.4751e-03	0.0000e+00
71	EMPTY	2.2314	2.2363	2.2344	2.4164e-03	0.0000e+00
72	EMPTY	2.2363	2.2412	2.2388	2.4662e-03	0.0000e+00
73	EMPTY	2.2461	2.2510	2.2480	2.4164e-03	0.0000e+00
74	EMPTY	2.2510	2.2559	2.2534	2.4662e-03	0.0000e+00
75	EMPTY	2.2559	2.2656	2.2611	1.6624e-03	0.0000e+00
76	EMPTY	2.2607	2.2705	2.2656	9.8648e-04	0.0000e+00
77	EMPTY	2.2754	2.2852	2.2757	1.5314e-03	0.0000e+00
78	EMPTY	2.2852	2.2900	2.2898	9.6655e-04	0.0000e+00
79	EMPTY	2.2998	2.3047	2.3046	6.9053e-04	0.0000e+00
80	PAN020136	-19.1203	-8.8969	-14.9470	2.7263e+00	8.7080e-01
81	PAN050136	-33.2269	-32.1587	-32.8057	2.2349e-01	1.6820e+00
82	PAN070136	-23.0493	-13.3600	-21.5875	1.8051e+00	8.7167e-01
83	PAN080136	-14.0819	-1.1119	-9.8720	2.4149e+00	8.7035e-01
84	PAN090136	-12.7703	-2.7758	-10.5852	1.9818e+00	8.7040e-01
85	PAN100136	-12.3859	-6.5113	-10.4466	1.2161e+00	8.7039e-01
86	PAN105136	-7.6272	-0.8370	-4.8974	1.2469e+00	8.7009e-01
87	PAN110136	-6.2524	-2.5140	-4.7738	8.6122e-01	8.7008e-01
88	PAN115136	-6.0807	-4.1734	-5.1453	4.3700e-01	8.7010e-01
89	PAN120136	-6.1908	-3.9019	-5.0158	5.1974e-01	8.7009e-01
90	PAN125136	-4.9539	-3.1991	-4.2215	4.1244e-01	8.7006e-01
91	PAN130136	-5.5129	-4.2922	-5.0384	2.4239e-01	8.7009e-01
92	PAN120048	-10.8718	-9.4985	-10.3164	3.1964e-01	8.7038e-01
93	PAN130048	-11.0478	-10.4375	-10.7472	1.3385e-01	8.7041e-01
94	PAN120224	-10.0384	-8.0547	-9.3594	4.7389e-01	8.7031e-01
95	PAN130224	-10.0912	-8.9468	-9.8577	2.1436e-01	8.7035e-01
96	PAN120312	-10.0501	-8.6005	-9.4047	3.2486e-01	8.7032e-01
97	PAN130312	-10.1910	-9.5044	-9.9392	1.6258e-01	8.7035e-01
98	PAB000136	40.2231	40.7724	40.3851	1.2346e-01	5.8872e-01
99	PAB100136	43.9046	44.0877	43.9851	4.3927e-02	5.9033e-01
100	PAB125136	44.8755	45.0128	44.9432	4.2622e-02	5.9078e-01

Test: May08_08

sum2

Date: Tue May 8 12:36:25 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4812	40.4578	40.2210	1.7854e-01	7.5671e-01
102	PRV000001	15.3654	15.4875	15.4851	1.7263e-02	7.5100e-01
103	PSR000001	45.0731	45.1952	45.1878	2.9284e-02	7.5846e-01
104	PFM000001	1.5529	1.8275	1.6463	7.9535e-02	5.0002e-01
105	PAN000136	-139.2569	-124.1507	-130.1383	3.2865e+00	4.9307e+00
106	PFM000002	1.5951	1.6790	1.6340	2.1558e-02	2.0004e-01
107	EMPTY	-0.0049	0.0000	-0.0043	1.6028e-03	0.0000e+00
108	EMPTY	-7.4609	-6.7188	-6.9418	1.9818e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0004	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0008	1.8082e-03	0.0000e+00
112	VPW000001	102.3400	102.7306	102.5314	1.0052e-01	1.0171e+00
113	VPW000002	119.9069	120.2975	120.1022	9.6655e-02	1.0842e+00
114	VPW000003	148.1333	148.5239	148.3755	1.0106e-01	1.2036e+00
115	VPW000004	105.4913	106.0772	105.7764	1.2608e-01	1.0290e+00
116	VPW000005	140.1893	140.5799	140.4315	1.2823e-01	1.1688e+00
117	VPW000006	147.1304	147.5211	147.2554	1.0259e-01	1.1986e+00
118	IPW000001	550.4109	554.3156	551.7384	1.1459e+00	9.1983e+00
119	IPW000002	1299.3206	1305.1743	1302.8329	1.5268e+00	1.3097e+01
120	IPW000003	1319.4750	1323.3750	1321.7764	1.2263e+00	1.3215e+01
121	IPW000004	380.7279	381.7044	381.0403	2.5648e-01	3.6141e+00
122	IPW000005	252.6884	253.6649	253.1474	2.8605e-01	2.8283e+00
123	IPW000006	265.5029	267.4560	266.3330	3.7239e-01	2.9029e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.8066e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	3.0501e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0159	3.0897e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0177	3.4016e-03	0.0000e+00
128	IHT000001	131.2613	133.9956	132.6362	5.8787e-01	4.3092e+00
129	IHT000002	131.6632	134.3976	133.0499	6.2795e-01	4.3105e+00
130	IHT000003	130.7917	133.5261	132.1786	5.7487e-01	4.3078e+00
131	IHT000004	131.2876	134.0219	132.7251	5.7421e-01	4.3095e+00
132	IHT000005	128.8687	131.6031	130.2241	5.9243e-01	4.3018e+00
133	IHT000006	125.1615	127.5052	126.5014	5.2052e-01	4.2907e+00
134	IHT000007	129.8114	131.9599	130.9482	4.8277e-01	4.3040e+00
135	IHT000008	130.2171	132.1702	131.1390	4.7848e-01	4.3046e+00
136	IHT000009	130.8819	133.2257	132.0850	5.1654e-01	4.3075e+00
137	IHT000010	129.7401	132.2792	130.9550	4.9014e-01	4.3041e+00
138	IHT000011	133.9656	136.1140	135.0789	4.3807e-01	4.3168e+00
139	IHT000012	127.8583	130.0067	128.9169	4.4309e-01	4.2979e+00
140	IHT000013	91.5077	93.6561	92.6795	4.4643e-01	4.2034e+00
141	IHT000014	127.4226	129.3757	128.6219	4.1387e-01	4.2970e+00
142	IHT000015	95.7031	97.4609	96.5937	4.1603e-01	4.2122e+00
143	IHT000016	88.6155	90.5686	89.5765	4.3555e-01	4.1967e+00
144	IHT000017	106.3965	108.9355	107.6113	5.5844e-01	4.2389e+00
145	IHT000018	107.8163	109.9647	108.7967	4.8567e-01	4.2419e+00
146	IHT000019	103.7973	105.7505	104.6919	4.7036e-01	4.2316e+00
147	IHT000020	106.7984	108.7515	107.5601	4.5206e-01	4.2387e+00
148	IHT000021	-2.3625	-0.0188	-1.2805	5.3701e-01	4.1000e+00
149	IHT000022	92.7547	94.7078	93.5867	4.1349e-01	4.2055e+00
150	IHT000023	105.8105	107.9590	106.8262	4.3940e-01	4.2369e+00
151	IHT000024	70.9285	72.8816	71.8582	4.0923e-01	4.1625e+00
152	IHT000025	103.3128	105.6566	104.2894	4.6689e-01	4.2306e+00
153	IHT000026	105.2810	107.2341	106.2302	4.4819e-01	4.2354e+00
154	IHT000027	89.8550	92.0035	90.8316	5.0068e-01	4.1994e+00
155	IHT000028	91.5264	94.0655	92.7608	5.7377e-01	4.2036e+00

Test: May08_08

sum2

Date: Tue May 8 12:36:25 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	105.2509	107.7900	106.5986	5.7487e-01	4.2363e+00
157	IHT000030	107.4369	109.7807	108.5542	5.7323e-01	4.2413e+00
158	IHT000031	106.3815	108.7252	107.4400	5.9724e-01	4.2384e+00
159	IHT000032	107.5759	110.1149	108.7555	5.7853e-01	4.2418e+00
160	IHT000033	107.5796	109.9234	108.6890	5.6557e-01	4.2416e+00
161	IHT000034	94.1632	95.9210	95.0459	4.4510e-01	4.2087e+00
162	IHT000035	123.9896	125.7475	124.9975	4.4531e-01	4.2863e+00
163	IHT000036	92.5819	94.5350	93.5311	4.4118e-01	4.2053e+00

Test: May08_08 dif Date: Tue May 8 12:36:25 1990 Page: 1

Velocity 1 = 0.038200 (ft/sec)

Velocity 2 = 0.003900 (ft/sec)

Pressure Drop = 0.045300 (psi)

Tsat in = 0.048706 (deg F) Tsat out = 0.032104 (deg F)

Phi inner = 0.292595 (kBtu/hr-ft2) Phi outer = 0.244896 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0171	0.0234
1	TRF000002	0.0085	0.0116
2	TFM000001	0.1381	0.1580
3	TIN000001	0.0546	0.0625
4	TRV000001	0.0252	0.0286
5	TSR000001	0.1200	0.0848
6	TAO020136	0.6593	0.3235
7	TAO050136	0.4752	0.2225
8	TAO070136	0.1613	0.0760
9	TAO080136	0.2599	0.1041
10	TAO090136	0.2003	0.0776
11	TAO100136	0.8319	0.3227
12	TAO105136	0.1186	0.0448
13	TAO110136	0.1530	0.0560
14	TAO115136	0.0593	0.0219
15	TAO120136	0.2544	0.0902
16	TAO125136	0.1614	0.0583
17	TAO130136	0.1704	0.0626
18	TAO120048	0.2594	0.0906
19	TAO130048	0.2775	0.0986
20	TAO120224	0.2637	0.0930
21	TAO130224	0.2411	0.0888
22	TAO120312	0.3422	0.1237
23	TAO130312	0.3104	0.1094
24	TRT020000	0.0619	0.0304
25	TRT070000	0.1814	0.0747
26	TRT100000	0.7929	0.2875
27	TRT120000	0.1242	0.1434
28	TRT125000	0.2316	0.0790
29	TRT130000	0.3100	0.1085
30	EMPTY	0.1516	0.3828
31	TAF050136	0.0802	0.0558
32	TAF070136	0.3139	0.1872
33	TAF080136	0.2564	0.1041
34	TAF090136	0.6681	0.3726
35	TAF100136	1.3318	0.6641
36	TAF105136	0.6360	0.3098
37	TAF110136	0.0639	0.0271
38	TAF115136	0.1941	0.0892
39	TAF120136	0.0184	0.0070
40	TAF125136	0.2743	0.1194
41	TAF130136	0.0603	0.0258
42	TAF120048	0.0913	0.0391
43	TAF130048	0.0861	0.0352
44	TAF120224	0.0190	0.0083
45	TAF130224	0.0644	0.0271

#	Name	Abs Diff	%Diff
46	EMPTY	0.0138	0.0362
47	EMPTY	0.0321	0.0806
48	TAI130138	0.0552	0.0199
49	TAI130226	0.0549	0.0199
50	TAI130314	0.0881	0.0312
51	TAI130042	0.0184	0.0066
52	TRR130090	3.4377	2.3239
53	TSI000001	0.0563	0.1168
54	TSI000002	0.5992	0.4638
55	TSO000001	0.0655	0.1406
56	TSO000002	0.0896	0.1378
57	TAF020136	0.2531	0.2351
58	TAF120312	0.1016	0.0433
59	TAF130312	0.0447	0.0173
60	EMPTY	0.0007	0.0148
61	EMPTY	0.0019	0.0402
62	EMPTY	0.0030	0.0636
63	EMPTY	0.0050	0.1062
64	EMPTY	0.0015	0.0689
65	EMPTY	0.0019	0.0869
66	EMPTY	0.0024	0.1094
67	EMPTY	0.0022	0.1000
68	EMPTY	0.0018	0.0817
69	EMPTY	0.0018	0.0813
70	EMPTY	0.0026	0.1172
71	EMPTY	0.0023	0.1030
72	EMPTY	0.0023	0.1028
73	EMPTY	0.0030	0.1336
74	EMPTY	0.0028	0.1244
75	EMPTY	0.0035	0.1550
76	EMPTY	0.0026	0.1149
77	EMPTY	0.0031	0.1364
78	EMPTY	0.0038	0.1662
79	EMPTY	0.0031	0.1347
80	PAN020136	1.3077	8.0451
81	PAN050136	0.0549	0.1676
82	PAN070136	0.0321	0.1485
83	PAN080136	1.0620	9.7128
84	PAN090136	0.0320	0.3032
85	PAN100136	0.1984	1.9359
86	PAN105136	0.5523	10.1345
87	PAN110136	0.0290	0.6038
88	PAN115136	0.0153	0.2965
89	PAN120136	0.1983	4.1162
90	PAN125136	0.1815	4.1222
91	PAN130136	0.0809	1.5803
92	PAN120048	0.0274	0.2649
93	PAN130048	0.0183	0.1700
94	PAN120224	0.2472	2.5732
95	PAN130224	0.0320	0.3257
96	PAN120312	0.1709	1.8508
97	PAN130312	0.0198	0.1996
98	PAB000136	0.0330	0.0818
99	PAB100136	0.0009	0.0020
100	PAB125136	0.0238	0.0529

Test: May08_08

dif

Date: Tue May 8 12:36:25 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0928	0.2313
102	PRV000001	0.0024	0.0155
103	PSR000001	0.0049	0.0108
104	PFM000001	0.0385	2.3946
105	PAN000136	1.2542	0.9545
106	PFM000002	0.0040	0.2454
107	EMPTY	0.0001	2.3810
108	EMPTY	0.0748	1.0660
109	EMPTY	0.0003	300.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0010	55.5556
112	VPW000001	0.1406	0.1369
113	VPW000002	0.1250	0.1040
114	VPW000003	0.1133	0.0763
115	VPW000004	0.1133	0.1072
116	VPW000005	0.0196	0.0139
117	VPW000006	0.0937	0.0636
118	IPW000001	7.0677	1.2648
119	IPW000002	2.7317	0.2101
120	IPW000003	5.6556	0.4297
121	IPW000004	0.2832	0.0743
122	IPW000005	0.4785	0.1887
123	IPW000006	0.0977	0.0367
124	EMPTY	0.0012	5.3097
125	EMPTY	0.0013	8.7838
126	EMPTY	0.0028	14.9733
127	EMPTY	0.0008	4.3243
128	IHT000001	0.0234	0.0177
129	IHT000002	0.0546	0.0410
130	IHT000003	0.0664	0.0502
131	IHT000004	0.0820	0.0617
132	IHT000005	0.0547	0.0420
133	IHT000006	0.0781	0.0617
134	IHT000007	0.0469	0.0358
135	IHT000008	0.0039	0.0030
136	IHT000009	0.0664	0.0503
137	IHT000010	0.1914	0.1459
138	IHT000011	0.1602	0.1185
139	IHT000012	0.1602	0.1241
140	IHT000013	0.0703	0.0758
141	IHT000014	0.0860	0.0668
142	IHT000015	0.0391	0.0405
143	IHT000016	0.1796	0.2001
144	IHT000017	1.2148	1.1418
145	IHT000018	0.0664	0.0611
146	IHT000019	0.0625	0.0597
147	IHT000020	0.1289	0.1200
148	IHT000021	0.3320	20.5891
149	IHT000022	0.1406	0.1505
150	IHT000023	0.0469	0.0439
151	IHT000024	0.0078	0.0108
152	IHT000025	0.0039	0.0037
153	IHT000026	0.0196	0.0185
154	IHT000027	0.0039	0.0043
155	IHT000028	0.0157	0.0169

Test: May08_08

dif

Date: Tue May 8 12:36:25 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0625	0.0587
157	IHT000030	0.0665	0.0613
158	IHT000031	0.0117	0.0109
159	IHT000032	0.0586	0.0539
160	IHT000033	0.0547	0.0504
161	IHT000034	0.0742	0.0781
162	IHT000035	0.0274	0.0219
163	IHT000036	0.0078	0.0083

Test: Aug01_01

sum1

Date: Wed Aug 1 11:25:10 1990

Page: 1

Velocity 1 = 26.1660 (ft/sec) (+/- 1.6884 %)
Velocity 2 = 13.4134 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.5520 (psi)
Tsat in = 267.5090 (deg F) Tsat out = 231.1341 (deg F)
Phi inner = 101.1592 (kBtu/hr-ft2) (+/- 1.4112 %)
Phi outer = 101.0141 (kBtu/hr-ft2) (+/- 1.5419 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.3122	77.9506	77.5846	1.7750e-01	1.9000e+00
1	TRF000002	77.5650	77.9883	77.7555	1.3006e-01	1.9000e+00
2	TFM000001	85.2659	85.8975	85.5714	1.8553e-01	1.9002e+00
3	TIN000001	84.8386	85.2615	85.0396	1.2476e-01	1.9002e+00
4	TRV000001	85.5261	86.3651	85.9645	2.1783e-01	1.9002e+00
5	TSR000001	105.1912	106.1203	105.6483	2.1901e-01	1.9009e+00
6	TAO020136	69.2586	71.2867	70.0250	4.9442e-01	1.9000e+00
7	TAO050136	107.7987	108.8270	108.3532	1.9176e-01	1.9010e+00
8	TAO070136	108.8541	109.7864	109.3286	2.1365e-01	1.9010e+00
9	TAO080136	115.7293	116.4464	116.1333	1.5289e-01	1.9014e+00
10	TAO090136	115.9910	116.9149	116.4036	2.0148e-01	1.9015e+00
11	TAO100136	113.7597	114.4797	114.1239	1.8026e-01	1.9013e+00
12	TAO105136	113.5132	114.3381	113.8988	1.7026e-01	1.9013e+00
13	TAO110136	115.0717	115.8911	115.4917	2.0483e-01	1.9014e+00
14	TAO115136	113.1900	114.0143	113.5010	2.0225e-01	1.9013e+00
15	TAO120136	119.4895	120.1047	119.8117	1.6027e-01	1.9017e+00
16	TAO125136	85.8994	86.9509	86.4902	2.4465e-01	1.9002e+00
17	TAO130136	115.9995	116.7125	116.3312	1.4722e-01	1.9014e+00
18	TAO120048	86.2003	86.8324	86.5604	1.6756e-01	1.9002e+00
19	TAO130048	117.6419	118.3588	117.9800	1.5783e-01	1.9016e+00
20	TAO120224	117.5509	118.3718	117.9267	1.7047e-01	1.9015e+00
21	TAO130224	114.1116	115.0318	114.5064	2.0232e-01	1.9013e+00
22	TAO120312	117.8573	118.4741	118.1759	1.6365e-01	1.9016e+00
23	TAO130312	118.3233	118.9390	118.6618	1.4678e-01	1.9016e+00
24	TRT020000	106.6079	107.6446	107.0622	2.3416e-01	1.9009e+00
25	TRT070000	114.4270	115.2532	114.8671	1.8288e-01	1.9014e+00
26	TRT100000	120.4222	121.5456	121.0569	2.4170e-01	1.9018e+00
27	TRT120000	118.1911	119.1138	118.7219	2.0871e-01	1.9016e+00
28	TRT125000	-0.7931	437.7462	236.4602	1.0087e+02	1.9186e+00
29	TRT130000	119.1291	119.9480	119.5817	1.6040e-01	1.9017e+00
30	EMPTY	39.3761	40.0646	39.7388	2.2759e-01	1.9011e+00
31	TAF050136	92.2822	93.0137	92.6272	1.7443e-01	1.9003e+00
32	TAF070136	95.0802	95.9125	95.5527	1.8948e-01	1.9004e+00
33	TAF080136	115.2423	116.4673	115.9455	2.8144e-01	1.9014e+00
34	TAF090136	81.2971	82.5615	81.8306	3.0010e-01	1.9001e+00
35	TAF100136	99.3010	100.1348	99.7035	1.7873e-01	1.9006e+00
36	TAF105136	99.9521	100.8834	100.4268	2.4005e-01	1.9006e+00
37	TAF110136	100.8079	101.6387	101.2585	1.5079e-01	1.9007e+00
38	TAF115136	102.1279	102.8541	102.4787	1.8609e-01	1.9007e+00
39	TAF120136	109.0502	109.8752	109.5099	1.9663e-01	1.9011e+00
40	TAF125136	103.1214	104.1539	103.6853	2.6912e-01	1.9008e+00
41	TAF130136	103.9185	104.7464	104.3965	1.6857e-01	1.9008e+00
42	TAF120048	104.3312	105.1642	104.7871	2.0710e-01	1.9008e+00
43	TAF130048	105.8417	106.4638	106.1713	1.4754e-01	1.9009e+00
44	TAF120224	101.8364	102.6677	102.3618	1.9945e-01	1.9007e+00
45	TAF130224	102.9639	103.5894	103.1912	1.2910e-01	1.9007e+00

Test: Aug01_01

sum1

Date: Wed Aug 1 11:25:10 1990

Pars: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0756	2.1594e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2796	1.1449e-01	1.9010e+00
48	TAI130048	113.2157	114.4508	113.8314	2.9721e-01	1.9013e+00
49	TAI130136	114.5719	115.3930	114.8946	2.0528e-01	1.9014e+00
50	TAI130224	116.2546	117.4886	117.0137	3.0173e-01	1.9015e+00
51	TAI130312	112.4102	113.2351	112.7631	1.7928e-01	1.9012e+00
52	TRR130000	95.0222	96.3762	95.6786	3.1062e-01	1.9004e+00
53	TSI000001	70.4291	71.1737	70.8055	1.6270e-01	1.9000e+00
54	TSI000002	89.8205	93.7896	91.4703	8.8352e-01	1.9003e+00
55	TSO000001	70.6201	71.5824	71.2466	2.0719e-01	1.9000e+00
56	TSO000002	75.0165	76.0782	75.6261	1.9757e-01	1.9000e+00
57	TAF020136	86.5903	87.2242	86.9681	1.8366e-01	1.9002e+00
58	TAF120312	102.7756	104.0212	103.4131	3.1518e-01	1.9008e+00
59	TAF130312	105.9881	106.8165	106.4663	2.0993e-01	1.9009e+00
60	EMPTY	0.8691	0.8740	0.8718	2.4583e-03	0.0000e+00
61	EMPTY	0.8789	0.8838	0.8834	1.3381e-03	0.0000e+00
62	EMPTY	0.8887	0.8984	0.8936	9.8648e-04	0.0000e+00
63	EMPTY	0.9033	0.9082	0.9060	2.4583e-03	0.0000e+00
64	EMPTY	0.5371	0.5420	0.5393	2.4484e-03	0.0000e+00
65	EMPTY	0.5566	0.5615	0.5609	1.6028e-03	0.0000e+00
66	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
67	EMPTY	0.5908	0.5957	0.5954	1.1714e-03	0.0000e+00
68	EMPTY	0.6055	0.6104	0.6094	1.9730e-03	0.0000e+00
69	EMPTY	0.6250	0.6299	0.6275	2.4642e-03	0.0000e+00
70	EMPTY	0.6396	0.6445	0.6426	2.4164e-03	0.0000e+00
71	EMPTY	0.6641	0.6689	0.6646	1.4797e-03	0.0000e+00
72	EMPTY	0.6787	0.6836	0.6788	6.9053e-04	0.0000e+00
73	EMPTY	0.6982	0.7031	0.6983	6.9053e-04	0.0000e+00
74	EMPTY	0.7129	0.7178	0.7133	1.3381e-03	0.0000e+00
75	EMPTY	0.7275	0.7324	0.7320	1.3381e-03	0.0000e+00
76	EMPTY	0.7422	0.7471	0.7466	1.4797e-03	0.0000e+00
77	EMPTY	0.7617	0.7666	0.7657	1.8950e-03	0.0000e+00
78	EMPTY	0.7861	0.7910	0.7867	1.6028e-03	0.0000e+00
79	EMPTY	0.8057	0.8105	0.8085	2.4344e-03	0.0000e+00
80	PAN020136	68.2935	69.6668	68.8947	2.8448e-01	8.8689e-01
81	PAN050136	125.4056	127.3892	126.4920	4.1087e-01	1.7095e+00
82	PAN070136	86.0570	87.2777	86.7192	2.8937e-01	8.9661e-01
83	PAN080136	42.4547	43.4466	42.8576	1.9681e-01	8.7657e-01
84	PAN090136	47.0677	48.2884	47.6933	2.5654e-01	8.7813e-01
85	PAN100136	31.5565	32.3957	31.8906	1.5711e-01	8.7365e-01
86	PAN105136	20.0704	20.6045	20.2810	1.0173e-01	8.7148e-01
87	PAN110136	21.6302	22.0879	21.8865	1.1302e-01	8.7172e-01
88	PAN115136	22.2288	22.6865	22.4348	1.1865e-01	8.7181e-01
89	PAN120136	21.0594	21.4409	21.2578	9.6259e-02	8.7162e-01
90	PAN125136	23.4905	23.8719	23.7255	1.0206e-01	8.7202e-01
91	PAN130136	23.5903	24.0481	23.7780	9.2752e-02	8.7203e-01
92	PAN120048	38.2498	38.9364	38.5916	1.7455e-01	8.7533e-01
93	PAN130048	49.6968	50.3835	49.9959	1.6446e-01	8.7893e-01
94	PAN120224	41.0082	41.7712	41.3103	1.6670e-01	8.7611e-01
95	PAN130224	38.1310	38.6651	38.3294	1.1637e-01	8.7526e-01
96	PAN120312	42.4636	43.1502	42.8328	1.7120e-01	8.7657e-01
97	PAN130312	48.8224	49.6616	49.2084	1.6487e-01	8.7865e-01
98	PAB000136	39.9313	40.2518	40.0943	8.6341e-02	5.8860e-01
99	PAB100136	25.3111	25.4942	25.4026	4.8937e-02	5.8347e-01
100	PAB125136	21.2194	21.4025	21.3100	4.2872e-02	5.8244e-01

Test: Aug01_01

sum1

Date: Wed Aug 1 11:25:10 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5255	40.2579	39.8282	1.6950e-01	7.5658e-01
102	PRV000001	19.4847	19.6068	19.5824	4.9324e-02	7.5160e-01
103	PSR000001	17.9001	18.0222	18.0100	3.6993e-02	7.5135e-01
104	PFM000001	104.7944	106.5339	105.6349	4.0847e-01	5.6546e-01
105	PAN000136	539.2199	545.1708	541.3074	1.4480e+00	5.1027e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0100	9.6655e-04	0.0000e+00
108	EMPTY	-6.9141	-5.0049	-6.1533	4.0893e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0074	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0033	2.3008e-03	0.0000e+00
112	VPW000001	101.4911	102.0771	101.8154	1.4557e-01	1.0145e+00
113	VPW000002	118.8815	119.2721	118.9869	1.0595e-01	1.0797e+00
114	VPW000003	146.1463	146.5370	146.4354	1.0617e-01	1.1950e+00
115	VPW000004	104.3983	104.7889	104.6170	1.0168e-01	1.0247e+00
116	VPW000005	138.9611	139.5470	139.2228	1.3445e-01	1.1636e+00
117	VPW000006	146.7886	147.1792	147.0386	1.3111e-01	1.1977e+00
118	IPW000001	538.8844	550.5984	546.3813	2.5973e+00	9.1783e+00
119	IPW000002	1310.7277	1318.5327	1314.5911	1.8275e+00	1.3171e+01
120	IPW000003	1334.5874	1342.3875	1337.9420	2.2985e+00	1.3317e+01
121	IPW000004	381.5354	382.5120	381.9943	3.4751e-01	3.6203e+00
122	IPW000005	253.7964	255.2611	254.3724	3.3725e-01	2.8352e+00
123	IPW000006	264.2823	266.2354	265.1416	4.6855e-01	2.8961e+00
124	EMPTY	-0.0293	-0.0146	-0.0222	3.8473e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	3.3944e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	3.2554e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
128	IHT000001	128.8950	132.2153	130.4380	6.1416e-01	4.3025e+00
129	IHT000002	132.7749	136.0952	134.2319	5.9216e-01	4.3141e+00
130	IHT000003	132.3355	135.8511	134.0659	6.2889e-01	4.3136e+00
131	IHT000004	130.8519	134.1722	132.4691	6.3263e-01	4.3087e+00
132	IHT000005	129.4809	132.4106	130.8755	5.9714e-01	4.3038e+00
133	IHT000006	124.5493	127.0883	125.8227	6.0133e-01	4.2887e+00
134	IHT000007	131.3852	133.5337	132.5845	5.6083e-01	4.3090e+00
135	IHT000008	129.5297	132.0688	130.9985	5.3850e-01	4.3042e+00
136	IHT000009	130.0518	132.7862	131.7354	5.8646e-01	4.3064e+00
137	IHT000010	132.2791	135.4041	133.3495	5.6254e-01	4.3114e+00
138	IHT000011	130.7505	133.6801	131.8286	5.4852e-01	4.3067e+00
139	IHT000012	128.7410	131.6707	129.6239	5.8957e-01	4.3000e+00
140	IHT000013	91.7405	94.4749	92.4671	5.4824e-01	4.2030e+00
141	IHT000014	127.7344	130.4688	128.6406	5.4642e-01	4.2971e+00
142	IHT000015	95.4590	97.6074	96.4043	4.8706e-01	4.2118e+00
143	IHT000016	89.1226	91.2710	89.8374	4.5268e-01	4.1973e+00
144	IHT000017	104.5298	106.8735	105.7173	6.2991e-01	4.2341e+00
145	IHT000018	107.4444	109.7881	108.4014	5.5137e-01	4.2409e+00
146	IHT000019	102.7757	105.7054	103.9593	5.5300e-01	4.2297e+00
147	IHT000020	105.8030	108.5374	107.0491	5.4945e-01	4.2374e+00
148	IHT000021	-3.0010	-0.0714	-1.6182	6.2495e-01	4.1000e+00
149	IHT000022	92.3866	94.9256	93.6326	5.3654e-01	4.2056e+00
150	IHT000023	104.6575	106.8059	105.7355	5.1029e-01	4.2341e+00
151	IHT000024	70.2261	72.3746	71.2222	4.8848e-01	4.1614e+00
152	IHT000025	104.1091	106.4528	105.1208	5.0792e-01	4.2326e+00
153	IHT000026	104.9091	107.0575	106.0068	5.2034e-01	4.2348e+00
154	IHT000027	90.0053	92.1537	90.9975	5.7024e-01	4.1998e+00
155	IHT000028	91.5490	93.8927	92.5334	5.6491e-01	4.2031e+00

Test: Aug01_01

sum1

Date: Wed Aug 1 11:25:10 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.9486	105.6010	5.6943e-01	4.2338e+00
157	IHT000030	107.0162	109.3600	108.1647	5.1996e-01	4.2403e+00
158	IHT000031	105.9082	108.0566	106.8379	4.7770e-01	4.2369e+00
159	IHT000032	106.9336	109.2774	107.8828	5.0070e-01	4.2396e+00
160	IHT000033	106.9336	109.2773	107.8398	5.1714e-01	4.2395e+00
161	IHT000034	94.1031	96.2515	94.9468	4.2027e-01	4.2085e+00
162	IHT000035	123.8957	125.8488	124.9386	3.9382e-01	4.2861e+00
163	IHT000036	92.5856	94.3435	93.5036	4.2361e-01	4.2053e+00

Velocity 1 = 26.1636 (ft/sec) (+/- 1.6884 %)
 Velocity 2 = 13.4137 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 19.5596 (psi)
 Tsat in = 267.6328 (deg F) Tsat out = 231.3232 (deg F)
 Phi inner = 100.7271 (kBtu/hr-ft2) (+/- 1.4123 %)
 Phi outer = 100.2861 (kBtu/hr-ft2) (+/- 1.5444 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.0993	77.7378	77.5803	1.7098e-01	1.9000e+00
1	TRF000002	77.5650	77.9883	77.8063	1.2836e-01	1.9000e+00
2	TFM000001	85.4765	86.1074	85.8424	1.5918e-01	1.9002e+00
3	TIN000001	84.9448	85.5772	85.2397	1.6081e-01	1.9002e+00
4	TRV000001	85.8387	86.5744	86.1509	1.9758e-01	1.9002e+00
5	TSR000001	104.6763	105.9149	105.4073	2.8577e-01	1.9008e+00
6	TAO020136	67.1194	69.1515	68.1298	5.7273e-01	1.9000e+00
7	TAO050136	108.1074	109.0340	108.5934	1.6897e-01	1.9010e+00
8	TAO070136	109.0604	109.8905	109.4094	1.9281e-01	1.9010e+00
9	TAO080136	116.0355	116.5490	116.3232	1.4192e-01	1.9014e+00
10	TAO090136	116.1953	117.0164	116.6392	1.9042e-01	1.9015e+00
11	TAO100136	114.0669	114.5821	114.3313	1.5008e-01	1.9013e+00
12	TAO105136	113.7200	114.5435	114.1315	2.2223e-01	1.9013e+00
13	TAO110136	115.3774	116.0939	115.7299	1.7172e-01	1.9014e+00
14	TAO115136	113.2930	114.1167	113.7212	2.0212e-01	1.9013e+00
15	TAO120136	119.6937	120.3093	120.0143	1.6253e-01	1.9017e+00
16	TAO125136	84.3239	85.4815	84.9053	2.5232e-01	1.9001e+00
17	TAO130136	116.3045	116.9148	116.5763	1.3405e-01	1.9015e+00
18	TAO120048	86.5161	87.0418	86.8145	1.3995e-01	1.9002e+00
19	TAO130048	117.8461	118.5628	118.1822	1.9615e-01	1.9016e+00
20	TAO120224	117.8584	118.4741	118.1787	1.5460e-01	1.9016e+00
21	TAO130224	114.3152	115.1325	114.8018	1.8284e-01	1.9014e+00
22	TAO120312	117.9598	118.8838	118.4364	1.8409e-01	1.9016e+00
23	TAO130312	118.6301	119.1427	118.9008	1.5036e-01	1.9016e+00
24	TRT020000	106.8153	107.6446	107.2342	1.9647e-01	1.9009e+00
25	TRT070000	114.7367	115.3573	115.0345	1.5983e-01	1.9014e+00
26	TRT100000	120.8290	121.5451	121.2547	1.8261e-01	1.9018e+00
27	TRT120000	118.5998	119.3178	118.8467	1.4790e-01	1.9016e+00
28	TRT125000	27.2857	449.9126	339.2690	9.6383e+01	1.9482e+00
29	TRT130000	119.5370	120.1521	119.8329	1.5287e-01	1.9017e+00
30	EMPTY	39.6057	40.2940	39.8673	1.9122e-01	1.9011e+00
31	TAF050136	92.5957	93.2219	92.8710	1.4273e-01	1.9004e+00
32	TAF070136	95.4953	96.2242	95.8620	1.7212e-01	1.9005e+00
33	TAF080136	115.3434	116.7713	116.1392	3.2576e-01	1.9014e+00
34	TAF090136	81.1905	82.0355	81.6009	2.4354e-01	1.9001e+00
35	TAF100136	99.6134	100.3430	99.9222	1.7098e-01	1.9006e+00
36	TAF105136	100.1578	101.1932	100.6763	2.4435e-01	1.9006e+00
37	TAF110136	101.2231	101.7411	101.5047	1.3420e-01	1.9007e+00
38	TAF115136	102.2305	103.2678	102.6919	2.3608e-01	1.9007e+00
39	TAF120136	109.3588	110.0783	109.7338	1.7358e-01	1.9011e+00
40	TAF125136	103.3265	104.5649	103.9178	3.1013e-01	1.9008e+00
41	TAF130136	104.2273	105.0565	104.6466	1.7997e-01	1.9008e+00
42	TAF120048	104.5397	105.5809	105.0058	2.1999e-01	1.9008e+00
43	TAF130048	106.0478	106.6698	106.4502	1.4446e-01	1.9009e+00
44	TAF120224	102.1480	102.8743	102.5587	1.7898e-01	1.9007e+00
45	TAF130224	103.1724	103.7972	103.4601	1.2887e-01	1.9008e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0940	2.0821e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2567	1.1589e-01	1.9010e+00
48	TAI130048	113.4214	114.7591	114.0350	3.1856e-01	1.9013e+00
49	TAI130136	114.7768	115.5977	115.1712	2.0559e-01	1.9014e+00
50	TAI130224	116.7692	117.7966	117.2543	2.5097e-01	1.9015e+00
51	TAI130312	112.7192	113.3382	112.9918	1.8716e-01	1.9012e+00
52	TRR130000	94.6054	96.0640	95.2356	3.1113e-01	1.9004e+00
53	TSI000001	70.6404	71.3860	70.9096	1.9728e-01	1.9000e+00
54	TSI000002	90.6568	95.6641	93.0169	1.1140e+00	1.9004e+00
55	TSO000001	70.8335	71.6887	71.2871	2.0781e-01	1.9000e+00
56	TSO000002	75.4408	76.2902	75.7682	1.9745e-01	1.9000e+00
57	TAF020136	86.9070	87.6462	87.2705	1.8247e-01	1.9002e+00
58	TAF120312	102.9826	104.2284	103.6102	2.9497e-01	1.9008e+00
59	TAF130312	106.2981	107.1254	106.7739	1.6185e-01	1.9009e+00
60	EMPTY	0.8740	0.8838	0.8776	2.5743e-03	0.0000e+00
61	EMPTY	0.8838	0.8936	0.8887	1.7086e-03	0.0000e+00
62	EMPTY	0.8936	0.9033	0.8982	1.3811e-03	0.0000e+00
63	EMPTY	0.9082	0.9180	0.9116	2.4662e-03	0.0000e+00
64	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
65	EMPTY	0.5566	0.5664	0.5618	1.5314e-03	0.0000e+00
66	EMPTY	0.5713	0.5811	0.5798	2.3778e-03	0.0000e+00
67	EMPTY	0.5957	0.6006	0.5965	1.8082e-03	0.0000e+00
68	EMPTY	0.6104	0.6152	0.6104	6.9053e-04	0.0000e+00
69	EMPTY	0.6299	0.6348	0.6300	6.9053e-04	0.0000e+00
70	EMPTY	0.6445	0.6494	0.6447	9.6655e-04	0.0000e+00
71	EMPTY	0.6641	0.6689	0.6686	1.3381e-03	0.0000e+00
72	EMPTY	0.6787	0.6836	0.6804	2.3365e-03	0.0000e+00
73	EMPTY	0.6982	0.7031	0.6998	2.3008e-03	0.0000e+00
74	EMPTY	0.7129	0.7178	0.7170	1.8082e-03	0.0000e+00
75	EMPTY	0.7324	0.7373	0.7335	2.0432e-03	0.0000e+00
76	EMPTY	0.7471	0.7520	0.7473	9.6655e-04	0.0000e+00
77	EMPTY	0.7617	0.7715	0.7670	1.6624e-03	0.0000e+00
78	EMPTY	0.7764	0.7910	0.7906	2.1702e-03	0.0000e+00
79	EMPTY	0.8105	0.8154	0.8106	6.9053e-04	0.0000e+00
80	PAN020136	68.0646	69.5905	68.7314	3.1582e-01	8.8681e-01
81	PAN050136	125.7108	127.2366	126.5103	3.7193e-01	1.7095e+00
82	PAN070136	86.1333	87.2777	86.6643	2.6065e-01	8.9657e-01
83	PAN080136	42.5310	43.5229	42.9689	1.9848e-01	8.7661e-01
84	PAN090136	47.1440	48.1358	47.6689	2.3051e-01	8.7812e-01
85	PAN100136	31.4802	32.3957	31.9547	1.9331e-01	8.7366e-01
86	PAN105136	19.9942	20.5282	20.3100	9.7497e-02	8.7148e-01
87	PAN110136	21.5539	22.0879	21.8789	1.0987e-01	8.7172e-01
88	PAN115136	22.3051	22.6865	22.4927	9.1462e-02	8.7182e-01
89	PAN120136	21.0594	21.5172	21.2318	1.0318e-01	8.7162e-01
90	PAN125136	23.4905	24.0245	23.7453	1.0747e-01	8.7202e-01
91	PAN130136	23.5140	24.0481	23.8009	9.9368e-02	8.7203e-01
92	PAN120048	38.1735	38.9364	38.6312	1.5023e-01	8.7534e-01
93	PAN130048	49.6206	50.3835	49.9990	1.7022e-01	8.7893e-01
94	PAN120224	41.0082	41.7712	41.3149	1.4983e-01	8.7611e-01
95	PAN130224	37.9784	38.7414	38.3431	1.3105e-01	8.7526e-01
96	PAN120312	42.4636	43.1502	42.8755	1.8172e-01	8.7658e-01
97	PAN130312	48.8987	49.6616	49.2588	1.6315e-01	8.7867e-01
98	PAB000136	39.9771	40.3891	40.1776	9.2431e-02	5.8863e-01
99	PAB100136	25.3568	25.6315	25.4933	5.5095e-02	5.8349e-01
100	PAB125136	21.3109	21.4940	21.3842	4.5307e-02	5.8246e-01

Test: Aug01_01

sum2

Date: Wed Aug 1 11:25:10 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5255	40.5021	39.9943	2.1551e-01	7.5664e-01
102	PRV000001	19.4847	19.6068	19.5848	4.7374e-02	7.5160e-01
103	PSR000001	17.9001	18.1443	18.0222	2.4662e-02	7.5135e-01
104	PFM000001	104.9775	106.3508	105.6110	4.1682e-01	5.6543e-01
105	PAN000136	537.8466	545.1708	541.5178	1.6838e+00	5.1029e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0098	9.8648e-04	0.0000e+00
108	EMPTY	-7.3730	-4.3262	-5.9168	5.0533e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
112	VPW000001	101.4911	102.0771	101.7217	1.8377e-01	1.0142e+00
113	VPW000002	118.6861	119.0768	118.8814	7.8918e-02	1.0793e+00
114	VPW000003	145.9510	146.3417	146.2128	1.0885e-01	1.1940e+00
115	VPW000004	104.3983	104.7889	104.5311	1.0763e-01	1.0244e+00
116	VPW000005	138.9611	139.3517	139.1798	1.2251e-01	1.1634e+00
117	VPW000006	146.5933	146.9839	146.8198	1.1409e-01	1.1967e+00
118	IPW000001	542.7891	554.5031	548.9976	2.7523e+00	9.1881e+00
119	IPW000002	1295.1174	1302.9225	1298.2786	1.7581e+00	1.3069e+01
120	IPW000003	1328.7374	1336.5374	1333.6899	1.8980e+00	1.3290e+01
121	IPW000004	380.0706	381.5354	380.8224	3.4470e-01	3.6126e+00
122	IPW000005	253.3081	254.7728	254.0696	3.5783e-01	2.8335e+00
123	IPW000006	264.2823	265.7471	264.9659	3.9459e-01	2.8951e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.3073e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0149	3.0261e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	3.4793e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0146	-0.0172	2.9986e-03	0.0000e+00
128	IHT000001	129.2856	131.6294	130.2739	5.7237e-01	4.3020e+00
129	IHT000002	132.9702	135.1187	133.9819	5.0330e-01	4.3134e+00
130	IHT000003	132.7261	135.0699	133.8980	5.4247e-01	4.3131e+00
131	IHT000004	131.0472	133.7816	132.2777	5.6806e-01	4.3081e+00
132	IHT000005	129.2856	132.2153	130.6684	5.7702e-01	4.3032e+00
133	IHT000006	124.1587	126.5024	125.5142	4.9976e-01	4.2878e+00
134	IHT000007	130.7993	133.1431	132.2446	4.7515e-01	4.3080e+00
135	IHT000008	129.3344	131.6782	130.7016	4.8166e-01	4.3033e+00
136	IHT000009	130.2471	132.3956	131.4424	5.1696e-01	4.3055e+00
137	IHT000010	132.2791	134.4276	133.3065	5.3788e-01	4.3113e+00
138	IHT000011	130.5551	132.7036	131.7231	4.8727e-01	4.3064e+00
139	IHT000012	128.3504	130.8894	129.5731	5.4076e-01	4.2999e+00
140	IHT000013	91.1546	93.4983	92.4710	5.0194e-01	4.2030e+00
141	IHT000014	127.5391	129.6875	128.7656	5.1605e-01	4.2974e+00
142	IHT000015	95.4590	97.4121	96.3457	4.7876e-01	4.2117e+00
143	IHT000016	88.7320	90.8804	89.7827	4.7333e-01	4.1972e+00
144	IHT000017	104.5298	108.2407	106.2407	8.1782e-01	4.2354e+00
145	IHT000018	107.0538	109.5928	108.4912	5.7421e-01	4.2411e+00
146	IHT000019	102.9710	105.1194	104.0101	4.6595e-01	4.2299e+00
147	IHT000020	105.9983	108.1468	107.0413	4.1312e-01	4.2374e+00
148	IHT000021	-2.8057	-0.2667	-1.4698	4.8866e-01	4.1000e+00
149	IHT000022	92.9725	95.1209	93.7694	4.0015e-01	4.2059e+00
150	IHT000023	104.6575	107.1965	105.8371	4.5156e-01	4.2344e+00
151	IHT000024	70.4214	72.5699	71.3511	4.2784e-01	4.1616e+00
152	IHT000025	104.3044	107.0388	105.2262	4.7357e-01	4.2329e+00
153	IHT000026	105.2997	107.8388	106.0927	4.4189e-01	4.2350e+00
154	IHT000027	90.2006	92.7396	91.0952	4.5350e-01	4.2000e+00
155	IHT000028	91.5490	94.0881	92.5920	5.0472e-01	4.2033e+00

Test: Aug01_01 sum2 Date: Wed Aug 1 11:25:10 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4095	106.7533	105.6362	4.7848e-01	4.2339e+00
157	IHT000030	107.0162	109.5553	108.2350	4.8417e-01	4.2405e+00
158	IHT000031	105.7129	108.2520	106.8613	5.1090e-01	4.2370e+00
159	IHT000032	106.7383	109.4727	107.9180	5.1442e-01	4.2396e+00
160	IHT000033	106.7383	109.4726	107.8672	5.2392e-01	4.2395e+00
161	IHT000034	94.1031	95.8609	94.9233	4.2315e-01	4.2084e+00
162	IHT000035	124.0910	126.0442	125.0285	4.9284e-01	4.2864e+00
163	IHT000036	92.5856	94.3435	93.5231	4.6689e-01	4.2053e+00

Velocity 1 = 0.002399 (ft/sec)

Velocity 2 = 0.000300 (ft/sec)

Pressure Drop = 0.007601 (psi)

Tsat in = 0.123810 (deg F) Tsat out = 0.189102 (deg F)

Phi inner = 0.432106 (kBtu/hr-ft2) Phi outer = 0.727997 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0043	0.0055
1	TRF000002	0.0508	0.0653
2	TFM000001	0.2710	0.3167
3	TIN000001	0.2001	0.2353
4	TRV000001	0.1864	0.2168
5	TSR000001	0.2410	0.2281
6	TAO020136	1.8952	2.7065
7	TAO050136	0.2402	0.2217
8	TAO070136	0.0808	0.0739
9	TAO080136	0.1899	0.1635
10	TAO090136	0.2356	0.2024
11	TAO100136	0.2074	0.1817
12	TAO105136	0.2327	0.2043
13	TAO110136	0.2382	0.2062
14	TAO115136	0.2202	0.1940
15	TAO120136	0.2026	0.1691
16	TAO125136	1.5849	1.8325
17	TAO130136	0.2451	0.2107
18	TAO120048	0.2541	0.2935
19	TAO130048	0.2022	0.1714
20	TAO120224	0.2520	0.2137
21	TAO130224	0.2954	0.2580
22	TAO120312	0.2605	0.2204
23	TAO130312	0.2390	0.2014
24	TRT020000	0.1720	0.1607
25	TRT070000	0.1674	0.1457
26	TRT100000	0.1978	0.1634
27	TRT120000	0.1248	0.1051
28	TRT125000	102.8088	43.4783
29	TRT130000	0.2512	0.2101
30	EMPTY	0.1285	0.3234
31	TAF050136	0.2438	0.2632
32	TAF070136	0.3093	0.3237
33	TAF080136	0.1937	0.1671
34	TAF090136	0.2297	0.2807
35	TAF100136	0.2187	0.2194
36	TAF105136	0.2495	0.2484
37	TAF110136	0.2462	0.2431
38	TAF115136	0.2132	0.2080
39	TAF120136	0.2239	0.2045
40	TAF125136	0.2325	0.2242
41	TAF130136	0.2501	0.2396
42	TAF120048	0.2187	0.2087
43	TAF130048	0.2789	0.2627
44	TAF120224	0.1969	0.1924
45	TAF130224	0.2689	0.2606

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0483
47	EMPTY	0.0229	0.0583
48	TAI130048	0.2036	0.1789
49	TAI130136	0.2766	0.2407
50	TAI130224	0.2406	0.2056
51	TAI130312	0.2287	0.2028
52	TRR130000	0.4430	0.4630
53	TSI000001	0.1041	0.1470
54	TSI000002	1.5466	1.6908
55	TSO000001	0.0405	0.0569
56	TSO000002	0.1421	0.1879
57	TAF020136	0.3024	0.3477
58	TAF120312	0.1971	0.1906
59	TAF130312	0.3076	0.2889
60	EMPTY	0.0058	0.6653
61	EMPTY	0.0053	0.6000
62	EMPTY	0.0046	0.5148
63	EMPTY	0.0056	0.6181
64	EMPTY	0.0027	0.5006
65	EMPTY	0.0009	0.1605
66	EMPTY	0.0036	0.6248
67	EMPTY	0.0011	0.1848
68	EMPTY	0.0010	0.1641
69	EMPTY	0.0025	0.3984
70	EMPTY	0.0021	0.3268
71	EMPTY	0.0040	0.6019
72	EMPTY	0.0016	0.2357
73	EMPTY	0.0015	0.2148
74	EMPTY	0.0037	0.5187
75	EMPTY	0.0015	0.2049
76	EMPTY	0.0007	0.0938
77	EMPTY	0.0013	0.1698
78	EMPTY	0.0039	0.4957
79	EMPTY	0.0021	0.2597
80	PAN020136	0.1633	0.2370
81	PAN050136	0.0183	0.0145
82	PAN070136	0.0549	0.0633
83	PAN080136	0.1113	0.2597
84	PAN090136	0.0244	0.0512
85	PAN100136	0.0641	0.2010
86	PAN105136	0.0290	0.1430
87	PAN110136	0.0076	0.0347
88	PAN115136	0.0579	0.2581
89	PAN120136	0.0260	0.1223
90	PAN125136	0.0198	0.0835
91	PAN130136	0.0229	0.0963
92	PAN120048	0.0396	0.1026
93	PAN130048	0.0031	0.0062
94	PAN120224	0.0046	0.0111
95	PAN130224	0.0137	0.0357
96	PAN120312	0.0427	0.0997
97	PAN130312	0.0504	0.1024
98	PAB000136	0.0833	0.2078
99	PAB100136	0.0907	0.3571
100	PAB125136	0.0742	0.3482

Test: Aug01_01

dif

Date: Wed Aug 1 11:25:10 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1661	0.4170
102	PRV000001	0.0024	0.0123
103	PSR000001	0.0122	0.0677
104	PFM000001	0.0239	0.0226
105	PAN000136	0.2104	0.0389
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.0000
108	EMPTY	0.2365	3.8435
109	EMPTY	0.0013	17.5676
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0019	57.5758
112	VPW000001	0.0937	0.0920
113	VPW000002	0.1055	0.0887
114	VPW000003	0.2226	0.1520
115	VPW000004	0.0859	0.0821
116	VPW000005	0.0430	0.0309
117	VPW000006	0.2188	0.1488
118	IPW000001	2.6163	0.4788
119	IPW000002	16.3125	1.2409
120	IPW000003	4.2521	0.3178
121	IPW000004	1.1719	0.3068
122	IPW000005	0.3028	0.1190
123	IPW000006	0.1757	0.0663
124	EMPTY	0.0003	1.3513
125	EMPTY	0.0006	4.1958
126	EMPTY	0.0003	1.6949
127	EMPTY	0.0011	6.8323
128	IHT000001	0.1641	0.1258
129	IHT000002	0.2500	0.1862
130	IHT000003	0.1679	0.1252
131	IHT000004	0.1914	0.1445
132	IHT000005	0.2071	0.1582
133	IHT000006	0.3085	0.2452
134	IHT000007	0.3399	0.2564
135	IHT000008	0.2969	0.2266
136	IHT000009	0.2930	0.2224
137	IHT000010	0.0430	0.0322
138	IHT000011	0.1055	0.0800
139	IHT000012	0.0508	0.0392
140	IHT000013	0.0039	0.0042
141	IHT000014	0.1250	0.0972
142	IHT000015	0.0586	0.0608
143	IHT000016	0.0547	0.0609
144	IHT000017	0.5234	0.4951
145	IHT000018	0.0898	0.0828
146	IHT000019	0.0508	0.0489
147	IHT000020	0.0078	0.0073
148	IHT000021	0.1484	9.1707
149	IHT000022	0.1368	0.1461
150	IHT000023	0.1016	0.0961
151	IHT000024	0.1289	0.1810
152	IHT000025	0.1054	0.1003
153	IHT000026	0.0859	0.0810
154	IHT000027	0.0977	0.1074
155	IHT000028	0.0586	0.0633

Test: Aug01_01

dif

Date: Wed Aug 1 11:25:10 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0352	0.0333
157	IHT000030	0.0703	0.0650
158	IHT000031	0.0234	0.0219
159	IHT000032	0.0352	0.0326
160	IHT000033	0.0274	0.0254
161	IHT000034	0.0235	0.0247
162	IHT000035	0.0899	0.0720
163	IHT000036	0.0195	0.0209

Velocity 1 = 19.7990 (ft/sec) (+/- 1.7223 %)
Velocity 2 = 13.4154 (ft/sec) (+/- 1.7033 %)
Pressure drop = 9.2600 (psi)
Tsats in = 267.3809 (deg F) Tsats out = 252.5111 (deg F)
Phi inner = 100.5047 (kBtu/hr-ft2) (+/- 1.4130 %)
Phi outer = 100.6013 (kBtu/hr-ft2) (+/- 1.5428 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.5250	78.1634	77.7846	1.8386e-01	1.9000e+00
1	TRF000002	77.7766	78.4115	78.0349	1.4988e-01	1.9000e+00
2	TFM000001	86.9465	87.6822	87.2998	2.0109e-01	1.9002e+00
3	TIN000001	86.4191	87.0513	86.7269	1.6595e-01	1.9002e+00
4	TRV000001	87.3057	88.0400	87.6713	1.7996e-01	1.9002e+00
5	TSR000001	109.2058	110.9530	110.1807	3.0448e-01	1.9011e+00
6	TAO020136	69.0445	70.9665	70.1510	4.6397e-01	1.9000e+00
7	TAO050136	115.8876	116.8092	116.3258	2.0260e-01	1.9014e+00
8	TAO070136	117.1244	117.8452	117.4211	2.0443e-01	1.9015e+00
9	TAO080136	125.7946	126.5061	126.1079	1.6551e-01	1.9021e+00
10	TAO090136	125.7886	126.6026	126.2484	1.8993e-01	1.9021e+00
11	TAO100136	123.6797	124.4962	124.1655	1.8967e-01	1.9020e+00
12	TAO105136	123.0591	124.0821	123.6566	2.1608e-01	1.9019e+00
13	TAO110136	125.2118	125.8229	125.5661	1.7925e-01	1.9021e+00
14	TAO115136	123.1376	124.0576	123.5182	2.0232e-01	1.9019e+00
15	TAO120136	130.3987	131.1091	130.6906	1.6882e-01	1.9025e+00
16	TAO125136	91.2412	92.4960	91.8982	2.5351e-01	1.9003e+00
17	TAO130136	126.2825	126.9905	126.6426	1.6772e-01	1.9022e+00
18	TAO120048	85.7808	86.4131	86.0926	1.6197e-01	1.9002e+00
19	TAO130048	128.4197	129.1306	128.9109	1.7689e-01	1.9023e+00
20	TAO120224	128.3672	129.1812	128.7704	1.4967e-01	1.9023e+00
21	TAO130224	123.8525	124.9676	124.4607	2.1269e-01	1.9020e+00
22	TAO120312	128.9959	129.7087	129.3057	1.7812e-01	1.9024e+00
23	TAO130312	129.0095	129.5180	129.2659	1.5267e-01	1.9024e+00
24	TRT020000	113.7439	114.7754	114.3010	2.0518e-01	1.9013e+00
25	TRT070000	124.0141	124.7327	124.3836	1.6958e-01	1.9020e+00
26	TRT100000	131.7956	132.6059	132.2657	2.1819e-01	1.9026e+00
27	TRT120000	129.6030	130.3149	129.9690	1.6425e-01	1.9024e+00
28	TRT125000	-46.5107	261.9926	135.1348	6.5988e+01	1.9029e+00
29	TRT130000	130.1123	130.9244	130.5267	1.8657e-01	1.9025e+00
30	EMPTY	39.3761	40.0646	39.7571	2.1050e-01	1.9011e+00
31	TAF050136	96.4442	97.2766	96.7778	1.9737e-01	1.9005e+00
32	TAF070136	100.0540	100.7802	100.4234	1.8142e-01	1.9006e+00
33	TAF080136	124.4831	126.4075	125.5285	3.9833e-01	1.9021e+00
34	TAF090136	80.3481	81.5095	80.8384	2.6431e-01	1.9001e+00
35	TAF100136	105.6419	106.6791	105.9451	2.2258e-01	1.9009e+00
36	TAF105136	106.4335	107.4616	106.9440	2.6339e-01	1.9009e+00
37	TAF110136	107.5170	108.2396	107.9381	1.6935e-01	1.9010e+00
38	TAF115136	109.0456	109.8700	109.4823	1.9920e-01	1.9010e+00
39	TAF120136	118.1591	118.7729	118.4541	1.6366e-01	1.9016e+00
40	TAF125136	110.7133	111.7374	111.2207	2.5167e-01	1.9011e+00
41	TAF130136	111.9578	112.4732	112.2259	1.5716e-01	1.9012e+00
42	TAF120048	111.9187	113.0568	112.5394	2.4647e-01	1.9012e+00
43	TAF130048	114.0827	114.7008	114.3999	1.4677e-01	1.9013e+00
44	TAF120224	109.0729	110.1048	109.4737	2.1330e-01	1.9010e+00
45	TAF130224	110.4486	111.0693	110.7920	1.6391e-01	1.9011e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0756	2.0039e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3118	1.2309e-01	1.9010e+00
48	TAI130048	123.6686	124.7913	124.2809	2.8867e-01	1.9020e+00
49	TAI130136	124.8793	125.5926	125.2588	1.8518e-01	1.9021e+00
50	TAI130224	127.0114	128.0318	127.6196	2.9430e-01	1.9022e+00
51	TAI130312	122.3689	123.2903	122.7130	2.0223e-01	1.9019e+00
52	TRR130000	91.7935	93.4633	92.7710	3.9360e-01	1.9003e+00
53	TSI000001	70.6420	71.1748	70.9489	1.3022e-01	1.9000e+00
54	TSI000002	93.8941	96.7061	95.1360	6.4947e-01	1.9004e+00
55	TSO000001	70.9400	71.6882	71.3036	1.9190e-01	1.9000e+00
56	TSO000002	75.9716	76.9266	76.4472	2.2916e-01	1.9000e+00
57	TAF020136	89.0203	89.9695	89.4973	1.9192e-01	1.9003e+00
58	TAF120312	110.2249	111.4631	110.8237	2.7178e-01	1.9011e+00
59	TAF130312	114.6351	115.4573	115.0587	2.1440e-01	1.9014e+00
60	EMPTY	1.0645	1.0742	1.0682	2.3261e-03	0.0000e+00
61	EMPTY	1.0742	1.0840	1.0781	2.2058e-03	0.0000e+00
62	EMPTY	1.0840	1.0889	1.0853	2.1635e-03	0.0000e+00
63	EMPTY	1.0938	1.1035	1.0983	1.5314e-03	0.0000e+00
64	EMPTY	0.6201	0.6299	0.6269	2.5894e-03	0.0000e+00
65	EMPTY	0.6445	0.6494	0.6493	6.9053e-04	0.0000e+00
66	EMPTY	0.6641	0.6641	0.6641	0.0000e+00	0.0000e+00
67	EMPTY	0.6787	0.6836	0.6832	1.3381e-03	0.0000e+00
68	EMPTY	0.6934	0.6982	0.6976	1.7115e-03	0.0000e+00
69	EMPTY	0.7129	0.7178	0.7132	1.1714e-03	0.0000e+00
70	EMPTY	0.7227	0.7324	0.7276	1.2041e-03	0.0000e+00
71	EMPTY	0.7520	0.7520	0.7520	0.0000e+00	0.0000e+00
72	EMPTY	0.7617	0.7666	0.7658	1.8082e-03	0.0000e+00
73	EMPTY	0.7813	0.7861	0.7852	1.9730e-03	0.0000e+00
74	EMPTY	0.7959	0.8008	0.8004	1.3381e-03	0.0000e+00
75	EMPTY	0.8154	0.8203	0.8162	1.8082e-03	0.0000e+00
76	EMPTY	0.8252	0.8350	0.8304	1.5314e-03	0.0000e+00
77	EMPTY	0.8447	0.8545	0.8500	1.6624e-03	0.0000e+00
78	EMPTY	0.8691	0.8740	0.8733	1.7115e-03	0.0000e+00
79	EMPTY	0.8936	0.8984	0.8938	9.6655e-04	0.0000e+00
80	PAN020136	32.4353	33.3509	32.8397	2.2719e-01	8.7387e-01
81	PAN050136	59.1824	61.0135	59.9362	3.8800e-01	1.6867e+00
82	PAN070136	40.9673	42.2643	41.5227	2.7618e-01	8.7617e-01
83	PAN080136	19.1851	20.3295	19.8198	2.2039e-01	8.7141e-01
84	PAN090136	22.4248	23.0351	22.6720	1.5610e-01	8.7184e-01
85	PAN100136	13.4748	14.1614	13.8547	1.4904e-01	8.7069e-01
86	PAN105136	8.9315	9.3893	9.1589	1.1788e-01	8.7030e-01
87	PAN110136	10.4150	10.9490	10.6271	1.2923e-01	8.7041e-01
88	PAN115136	10.4032	10.8610	10.6641	1.0464e-01	8.7041e-01
89	PAN120136	9.8442	10.3019	10.0090	8.7682e-02	8.7036e-01
90	PAN125136	11.2072	11.6649	11.4086	9.3453e-02	8.7047e-01
91	PAN130136	11.5359	11.8410	11.7007	8.2084e-02	8.7049e-01
92	PAN120048	17.1164	17.8030	17.4337	1.4652e-01	8.7109e-01
93	PAN130048	24.0621	24.7487	24.3306	1.4804e-01	8.7212e-01
94	PAN120224	19.0356	19.8748	19.3469	1.6154e-01	8.7134e-01
95	PAN130224	16.8450	17.4554	17.1395	1.5491e-01	8.7105e-01
96	PAN120312	19.8042	20.5672	20.1659	1.5930e-01	8.7146e-01
97	PAN130312	23.6454	24.2557	24.0146	1.3988e-01	8.7207e-01
98	PAB000136	39.7940	40.2975	40.0082	9.7190e-02	5.8856e-01
99	PAB100136	32.9557	33.1388	33.0638	4.8727e-02	5.8586e-01
100	PAB125136	31.0155	31.1528	31.0833	4.2622e-02	5.8518e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4034	40.1358	39.7257	1.7044e-01	7.5655e-01
102	PRV000001	19.6068	19.7289	19.7240	2.4164e-02	7.5162e-01
103	PSR000001	29.1306	29.2527	29.1697	5.7521e-02	7.5354e-01
104	PFM000001	59.6589	61.4899	60.3236	3.7261e-01	5.2225e-01
105	PAN000136	252.2021	261.3574	256.3677	2.1236e+00	4.9616e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0089	2.1364e-03	0.0000e+00
108	EMPTY	-6.7480	-4.1650	-5.6857	6.3216e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	101.4911	102.0771	101.8506	1.4953e-01	1.0147e+00
113	VPW000002	118.8815	119.2721	118.9947	1.1223e-01	1.0797e+00
114	VPW000003	146.1463	146.7323	146.3808	1.3087e-01	1.1948e+00
115	VPW000004	104.2030	104.7889	104.5545	1.6269e-01	1.0245e+00
116	VPW000005	138.7658	139.5470	139.1915	1.4600e-01	1.1634e+00
117	VPW000006	146.5933	147.3745	147.0112	1.6274e-01	1.1976e+00
118	IPW000001	552.5508	558.4078	555.2841	1.4758e+00	9.2116e+00
119	IPW000002	1295.1174	1302.9225	1299.6835	1.7457e+00	1.3078e+01
120	IPW000003	1326.7874	1330.6874	1328.9719	1.2232e+00	1.3260e+01
121	IPW000004	378.6057	380.5589	379.8459	5.3315e-01	3.6062e+00
122	IPW000005	252.8199	254.7728	253.7963	4.0670e-01	2.8320e+00
123	IPW000006	263.7940	265.2588	264.2823	4.0673e-01	2.8912e+00
124	EMPTY	-0.0293	-0.0146	-0.0213	3.9162e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0151	2.2603e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	2.8058e-03	0.0000e+00
128	IHT000001	129.0903	131.4341	130.1684	5.7350e-01	4.3017e+00
129	IHT000002	132.9702	135.1187	134.0249	5.1599e-01	4.3135e+00
130	IHT000003	133.1167	134.8745	134.0112	4.9140e-01	4.3135e+00
131	IHT000004	131.4378	133.5863	132.3519	5.2562e-01	4.3083e+00
132	IHT000005	129.8716	132.0200	130.7231	5.0031e-01	4.3034e+00
133	IHT000006	124.7446	126.8930	125.5962	4.5807e-01	4.2881e+00
134	IHT000007	131.5806	133.7290	132.4790	4.8808e-01	4.3087e+00
135	IHT000008	130.1157	132.4594	130.9868	4.3443e-01	4.3042e+00
136	IHT000009	130.4425	133.1768	131.6807	5.4047e-01	4.3063e+00
137	IHT000010	132.0838	134.4276	133.3065	5.4076e-01	4.3113e+00
138	IHT000011	130.7505	132.7036	131.7622	5.0792e-01	4.3065e+00
139	IHT000012	128.5457	130.6941	129.6239	5.5837e-01	4.3000e+00
140	IHT000013	91.3499	93.6936	92.5413	5.6806e-01	4.2031e+00
141	IHT000014	127.7344	129.8828	128.8047	5.7756e-01	4.2976e+00
142	IHT000015	95.2636	97.8027	96.3105	5.9420e-01	4.2116e+00
143	IHT000016	88.7320	91.4664	89.8687	5.9802e-01	4.1973e+00
144	IHT000017	104.1391	106.4829	105.3970	6.3031e-01	4.2333e+00
145	IHT000018	107.2491	110.1788	108.4365	6.5773e-01	4.2410e+00
146	IHT000019	102.9710	105.9007	103.9984	6.2988e-01	4.2298e+00
147	IHT000020	105.9983	108.5374	106.9085	5.6305e-01	4.2371e+00
148	IHT000021	-2.8057	0.1240	-1.6182	6.9457e-01	4.1000e+00
149	IHT000022	92.5819	95.1209	93.6248	5.6581e-01	4.2055e+00
150	IHT000023	104.6575	107.0012	105.7238	5.4134e-01	4.2341e+00
151	IHT000024	70.2261	72.5699	71.1870	5.4511e-01	4.1613e+00
152	IHT000025	104.3044	106.4528	105.2145	5.4621e-01	4.2328e+00
153	IHT000026	105.1044	107.0575	106.1396	5.2386e-01	4.2352e+00
154	IHT000027	90.0053	92.3490	91.0873	5.3701e-01	4.2000e+00
155	IHT000028	91.5490	93.6974	92.5099	5.5079e-01	4.2031e+00

Test: Aug01_02

sum1

Date: Wed Aug 1 11:51:57 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.9486	105.5971	5.5921e-01	4.2338e+00
157	IHT000030	107.0162	109.5553	108.0709	5.4676e-01	4.2400e+00
158	IHT000031	105.7129	108.4473	106.7559	5.7129e-01	4.2367e+00
159	IHT000032	106.7383	109.4727	107.8242	5.4413e-01	4.2394e+00
160	IHT000033	106.7383	109.4726	107.7617	5.3896e-01	4.2393e+00
161	IHT000034	93.9077	95.8609	94.8140	4.1715e-01	4.2082e+00
162	IHT000035	124.0910	126.0442	124.9347	4.6428e-01	4.2861e+00
163	IHT000036	92.5856	94.3435	93.4333	4.2427e-01	4.2051e+00

Velocity 1 = 19.7260 (ft/sec) (+/- 1.7230 %)
 Velocity 2 = 13.4158 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 9.1753 (psi)
 Tsat in = 267.3904 (deg F) Tsat out = 252.6756 (deg F)
 Phi inner = 100.3267 (kBtu/hr-ft2) (+/- 1.4135 %)
 Phi outer = 100.5214 (kBtu/hr-ft2) (+/- 1.5430 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.5250	78.1634	77.8315	1.5596e-01	1.9000e+00
1	TRF000002	77.7766	78.1999	78.0518	1.2280e-01	1.9000e+00
2	TFM000001	87.2619	88.1015	87.7257	1.7107e-01	1.9002e+00
3	TIN000001	86.8401	87.3667	87.0826	1.2628e-01	1.9002e+00
4	TRV000001	87.7254	88.4585	88.0918	1.9304e-01	1.9002e+00
5	TSR000001	111.1572	111.8765	111.5946	1.8538e-01	1.9012e+00
6	TAO020136	69.5782	71.6063	70.5032	4.6465e-01	1.9000e+00
7	TAO050136	116.2975	117.0125	116.6587	1.7062e-01	1.9015e+00
8	TAO070136	117.1244	118.2571	117.8764	2.1948e-01	1.9015e+00
9	TAO080136	126.0994	126.7085	126.4220	1.2433e-01	1.9021e+00
10	TAO090136	126.3978	126.9075	126.6489	1.5720e-01	1.9022e+00
11	TAO100136	124.2916	124.9033	124.6239	1.3321e-01	1.9020e+00
12	TAO105136	123.6725	124.4908	124.0798	2.1208e-01	1.9020e+00
13	TAO110136	125.7175	126.2261	126.0045	1.3393e-01	1.9021e+00
14	TAO115136	123.4445	124.4659	123.9369	2.5170e-01	1.9020e+00
15	TAO120136	130.8041	131.8191	131.1392	1.7793e-01	1.9025e+00
16	TAO125136	92.2858	93.2268	92.7357	2.3042e-01	1.9003e+00
17	TAO130136	126.7858	127.3917	127.0987	1.3406e-01	1.9022e+00
18	TAO120048	85.7815	86.3074	86.0444	1.3661e-01	1.9002e+00
19	TAO130048	129.0270	129.7376	129.3827	1.8002e-01	1.9024e+00
20	TAO120224	128.7749	129.5874	129.1870	1.9201e-01	1.9024e+00
21	TAO130224	124.4587	125.3715	124.8550	2.1577e-01	1.9020e+00
22	TAO120312	129.5050	130.1154	129.7634	1.7470e-01	1.9024e+00
23	TAO130312	129.5169	129.9232	129.7463	1.2281e-01	1.9024e+00
24	TRT020000	114.1564	115.0842	114.6989	2.2597e-01	1.9013e+00
25	TRT070000	124.5277	125.1434	124.7963	1.6295e-01	1.9020e+00
26	TRT100000	132.5040	133.2120	132.7773	1.3750e-01	1.9027e+00
27	TRT120000	130.2115	130.7199	130.4578	1.2833e-01	1.9025e+00
28	TRT125000	20.0297	154.2470	98.7844	3.0846e+01	1.9006e+00
29	TRT130000	130.8212	131.3291	131.0795	1.3623e-01	1.9025e+00
30	EMPTY	39.3761	40.0646	39.7985	2.2410e-01	1.9011e+00
31	TAF050136	96.9637	97.3808	97.1745	1.3545e-01	1.9005e+00
32	TAF070136	100.3657	101.1934	100.8432	1.7741e-01	1.9006e+00
33	TAF080136	125.1925	126.7097	125.9353	3.7041e-01	1.9021e+00
34	TAF090136	80.1371	81.4040	80.8027	2.6052e-01	1.9001e+00
35	TAF100136	106.0566	106.7825	106.3535	2.0192e-01	1.9009e+00
36	TAF105136	106.9477	107.8709	107.3524	2.4307e-01	1.9009e+00
37	TAF110136	108.0325	108.6510	108.3807	1.5575e-01	1.9010e+00
38	TAF115136	109.5599	110.2814	109.9125	2.0709e-01	1.9011e+00
39	TAF120136	118.6699	119.2829	118.9334	1.5035e-01	1.9016e+00
40	TAF125136	111.2257	112.2471	111.7012	2.8363e-01	1.9012e+00
41	TAF130136	112.4716	113.0892	112.6800	1.3711e-01	1.9012e+00
42	TAF120048	112.6431	113.3673	113.0220	1.6544e-01	1.9012e+00
43	TAF130048	114.6995	115.1107	114.9399	1.1497e-01	1.9014e+00
44	TAF120224	109.4859	110.2082	109.8963	1.7368e-01	1.9011e+00
45	TAF130224	110.9662	111.4836	111.2001	1.1027e-01	1.9011e+00

AIM

Association for Information and Image Management

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Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

7 of 11

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	1.8724e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3623	9.7417e-02	1.9010e+00
48	TAI130048	124.2808	125.5043	124.8868	3.0519e-01	1.9020e+00
49	TAI130136	125.3877	126.3039	125.8462	1.9853e-01	1.9021e+00
50	TAI130224	127.5217	128.7450	128.0540	2.9294e-01	1.9023e+00
51	TAI130312	122.5734	123.4941	123.1485	1.9371e-01	1.9019e+00
52	TRR130000	92.6302	93.9843	93.2360	2.9085e-01	1.9004e+00
53	TSI000001	70.5367	71.3871	71.0616	1.9627e-01	1.9000e+00
54	TSI000002	93.5821	97.1215	95.1465	8.0541e-01	1.9004e+00
55	TSO000001	70.9400	71.7957	71.3613	1.9492e-01	1.9000e+00
56	TSO000002	76.0782	76.9266	76.5512	1.9897e-01	1.9000e+00
57	TAF020136	89.4428	90.2868	89.8962	1.9893e-01	1.9003e+00
58	TAF120312	110.6380	111.7718	111.2876	2.5621e-01	1.9011e+00
59	TAF130312	115.0468	115.9696	115.5449	1.8200e-01	1.9014e+00
60	EMPTY	1.0742	1.0840	1.0787	1.9331e-03	0.0000e+00
61	EMPTY	1.0840	1.0889	1.0885	1.3381e-03	0.0000e+00
62	EMPTY	1.0938	1.0986	1.0967	2.4164e-03	0.0000e+00
63	EMPTY	1.1084	1.1084	1.1084	0.0000e+00	0.0000e+00
64	EMPTY	0.6299	0.6396	0.6330	2.5648e-03	0.0000e+00
65	EMPTY	0.6543	0.6592	0.6546	1.1714e-03	0.0000e+00
66	EMPTY	0.6689	0.6689	0.6689	0.0000e+00	0.0000e+00
67	EMPTY	0.6885	0.6885	0.6885	0.0000e+00	0.0000e+00
68	EMPTY	0.6982	0.7031	0.7027	1.3381e-03	0.0000e+00
69	EMPTY	0.7178	0.7227	0.7183	1.4797e-03	0.0000e+00
70	EMPTY	0.7324	0.7373	0.7341	2.3365e-03	0.0000e+00
71	EMPTY	0.7520	0.7568	0.7567	6.9053e-04	0.0000e+00
72	EMPTY	0.7666	0.7715	0.7711	1.3381e-03	0.0000e+00
73	EMPTY	0.7861	0.7910	0.7907	1.1714e-03	0.0000e+00
74	EMPTY	0.8057	0.8057	0.8057	0.0000e+00	0.0000e+00
75	EMPTY	0.8203	0.8301	0.8242	2.2058e-03	0.0000e+00
76	EMPTY	0.8350	0.8398	0.8369	2.4164e-03	0.0000e+00
77	EMPTY	0.8545	0.8594	0.8555	1.9730e-03	0.0000e+00
78	EMPTY	0.8740	0.8789	0.8788	6.9053e-04	0.0000e+00
79	EMPTY	0.8984	0.9082	0.8989	1.7784e-03	0.0000e+00
80	PAN020136	32.1302	33.1220	32.6535	2.2390e-01	8.7382e-01
81	PAN050136	58.5721	60.2505	59.3686	4.6271e-01	1.6865e+00
82	PAN070136	40.5858	41.8065	41.2740	2.6541e-01	8.7610e-01
83	PAN080136	19.1851	20.1006	19.5391	2.1345e-01	8.7137e-01
84	PAN090136	22.1196	23.0351	22.5026	2.3704e-01	8.7182e-01
85	PAN100136	13.2459	13.9326	13.7113	1.5043e-01	8.7068e-01
86	PAN105136	8.8552	9.3893	9.0963	1.4324e-01	8.7030e-01
87	PAN110136	10.2624	10.8727	10.5111	1.5008e-01	8.7040e-01
88	PAN115136	10.4795	10.7847	10.6062	8.9360e-02	8.7040e-01
89	PAN120136	9.6916	10.1494	9.9449	1.0390e-01	8.7036e-01
90	PAN125136	11.1309	11.5123	11.3201	9.4061e-02	8.7046e-01
91	PAN130136	11.4596	11.7647	11.5847	9.0876e-02	8.7048e-01
92	PAN120048	16.9638	17.6504	17.2552	1.6143e-01	8.7107e-01
93	PAN130048	23.9095	24.3673	24.1094	1.3516e-01	8.7209e-01
94	PAN120224	18.8830	19.4170	19.1866	1.1585e-01	8.7132e-01
95	PAN130224	16.6924	17.2265	16.9595	1.5356e-01	8.7103e-01
96	PAN120312	19.8042	20.2620	20.0240	1.2583e-01	8.7144e-01
97	PAN130312	23.4165	24.1794	23.8499	1.6489e-01	8.7204e-01
98	PAB000136	39.7940	40.2060	40.0146	9.5972e-02	5.8856e-01
99	PAB100136	33.0931	33.2762	33.1516	4.4391e-02	5.8589e-01
100	PAB125136	31.1071	31.2444	31.1711	4.4353e-02	5.8521e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5255	40.2579	39.8600	1.5364e-01	7.5659e-01
102	PRV000001	19.7289	19.8509	19.7753	5.9853e-02	7.5163e-01
103	PSR000001	29.1306	29.3748	29.3162	6.6358e-02	7.5357e-01
104	PFM000001	59.2011	60.4829	59.8731	2.9339e-01	5.2192e-01
105	PAN000136	248.5400	258.6108	254.0240	2.2186e+00	4.9608e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0092	1.6028e-03	0.0000e+00
108	EMPTY	-6.7725	-4.2529	-5.8040	4.9743e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
112	VPW000001	101.4911	102.0771	101.6474	1.6269e-01	1.0139e+00
113	VPW000002	118.6861	119.2721	118.9595	1.4227e-01	1.0796e+00
114	VPW000003	146.1463	146.5370	146.3300	1.2731e-01	1.1945e+00
115	VPW000004	104.0077	104.9842	104.5350	2.2058e-01	1.0244e+00
116	VPW000005	138.9611	139.7424	139.3204	1.9871e-01	1.1640e+00
117	VPW000006	146.7886	147.3745	147.0620	1.6741e-01	1.1978e+00
118	IPW000001	552.5508	560.3602	555.5184	1.5895e+00	9.2125e+00
119	IPW000002	1291.2150	1299.0200	1294.8835	1.9962e+00	1.3048e+01
120	IPW000003	1322.8875	1330.6874	1326.3196	1.6509e+00	1.3244e+01
121	IPW000004	382.0237	385.9300	383.9572	8.4837e-01	3.6333e+00
122	IPW000005	252.8199	255.7493	253.9624	6.0492e-01	2.8329e+00
123	IPW000006	263.3057	265.2588	264.4776	4.5206e-01	2.8923e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.2133e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	3.0628e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	2.9986e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.1874e-03	0.0000e+00
128	IHT000001	129.2856	131.6294	130.2348	5.3088e-01	4.3019e+00
129	IHT000002	133.1656	135.3140	134.0679	4.6837e-01	4.3136e+00
130	IHT000003	133.1167	135.2652	134.0581	4.8277e-01	4.3136e+00
131	IHT000004	131.6331	133.9769	132.3949	4.7556e-01	4.3085e+00
132	IHT000005	130.0669	132.4106	130.8364	4.8070e-01	4.3037e+00
133	IHT000006	124.9399	127.2837	125.6704	4.7484e-01	4.2883e+00
134	IHT000007	131.7759	134.1196	132.5415	4.9101e-01	4.3089e+00
135	IHT000008	130.3110	132.2641	131.0337	4.8206e-01	4.3043e+00
136	IHT000009	130.8331	133.1768	131.7002	5.5826e-01	4.3063e+00
137	IHT000010	132.4745	134.6229	133.4940	5.5284e-01	4.3119e+00
138	IHT000011	130.9458	132.8989	131.9888	5.3759e-01	4.3072e+00
139	IHT000012	128.7410	130.6941	129.8153	5.3561e-01	4.3006e+00
140	IHT000013	91.5452	93.6936	92.6272	4.8842e-01	4.2033e+00
141	IHT000014	128.3203	130.0781	129.1016	4.7021e-01	4.2985e+00
142	IHT000015	95.6543	97.6074	96.4277	4.5500e-01	4.2119e+00
143	IHT000016	88.9273	90.8804	89.8413	5.1816e-01	4.1973e+00
144	IHT000017	105.8969	108.0454	106.9399	5.4047e-01	4.2372e+00
145	IHT000018	107.6397	109.5928	108.7334	5.5102e-01	4.2417e+00
146	IHT000019	103.3616	105.3148	104.2757	4.9511e-01	4.2305e+00
147	IHT000020	106.1936	108.1468	107.1312	5.2050e-01	4.2377e+00
148	IHT000021	-2.6104	-0.0714	-1.2823	6.2515e-01	4.1000e+00
149	IHT000022	92.7772	94.7303	93.7303	5.2146e-01	4.2058e+00
150	IHT000023	104.8528	107.0012	105.9426	4.8823e-01	4.2347e+00
151	IHT000024	70.4214	72.3746	71.4214	4.5101e-01	4.1617e+00
152	IHT000025	104.4997	106.4528	105.4450	4.5053e-01	4.2334e+00
153	IHT000026	105.2997	107.2528	106.3310	4.6192e-01	4.2356e+00
154	IHT000027	90.0053	92.1537	91.1030	5.0051e-01	4.2000e+00
155	IHT000028	91.3537	93.5021	92.5334	5.7040e-01	4.2031e+00

Test: Aug01_02

sum2

Date: Wed Aug 1 11:51:57 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.8002	106.9486	105.7534	5.6447e-01	4.2342e+00
157	IHT000030	107.2116	109.3600	108.1647	5.4482e-01	4.2403e+00
158	IHT000031	105.7129	108.0566	106.7871	5.5559e-01	4.2368e+00
159	IHT000032	106.7383	109.0820	107.8711	5.7182e-01	4.2395e+00
160	IHT000033	106.7383	108.8867	107.7930	5.6359e-01	4.2393e+00
161	IHT000034	93.9077	95.6656	94.7671	4.6522e-01	4.2081e+00
162	IHT000035	123.8957	126.2395	124.9464	5.3944e-01	4.2862e+00
163	IHT000036	92.5856	94.3435	93.4567	4.9318e-01	4.2052e+00

Velocity 1 = 0.073000 (ft/sec)
 Velocity 2 = 0.000401 (ft/sec)
 Pressure Drop = 0.084701 (psi)
 Tsat in = 0.009521 (deg F) Tsat out = 0.164505 (deg F)
 Phi inner = 0.178001 (kBtu/hr-ft2) Phi outer = 0.079903 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0469	0.0603
1	TRF000002	0.0169	0.0217
2	TFM000001	0.4259	0.4879
3	TIN000001	0.3557	0.4101
4	TRV000001	0.4205	0.4796
5	TSR000001	1.4139	1.2833
6	TAO020136	0.3522	0.5021
7	TAO050136	0.3329	0.2862
8	TAO070136	0.4553	0.3878
9	TAO080136	0.3141	0.2491
10	TAO090136	0.4005	0.3172
11	TAO100136	0.4584	0.3692
12	TAO105136	0.4232	0.3422
13	TAO110136	0.4384	0.3491
14	TAO115136	0.4187	0.3390
15	TAO120136	0.4486	0.3433
16	TAO125136	0.8375	0.9113
17	TAO130136	0.4561	0.3601
18	TAO120048	0.0482	0.0560
19	TAO130048	0.4718	0.3660
20	TAO120224	0.4166	0.3235
21	TAO130224	0.3943	0.3168
22	TAO120312	0.4577	0.3540
23	TAO130312	0.4804	0.3716
24	TRT020000	0.3979	0.3481
25	TRT070000	0.4127	0.3318
26	TRT100000	0.5116	0.3868
27	TRT120000	0.4888	0.3761
28	TRT125000	36.3504	26.8994
29	TRT130000	0.5528	0.4235
30	EMPTY	0.0414	0.1041
31	TAF050136	0.3967	0.4099
32	TAF070136	0.4198	0.4180
33	TAF080136	0.4068	0.3241
34	TAF090136	0.0357	0.0442
35	TAF100136	0.4084	0.3855
36	TAF105136	0.4084	0.3819
37	TAF110136	0.4426	0.4100
38	TAF115136	0.4302	0.3929
39	TAF120136	0.4793	0.4046
40	TAF125136	0.4805	0.4320
41	TAF130136	0.4541	0.4046
42	TAF120048	0.4826	0.4288
43	TAF130048	0.5400	0.4720
44	TAF120224	0.4226	0.3860
45	TAF130224	0.4081	0.3684

#	Name	Abs Diff	%Diff
46	EMPTY	0.0827	0.2172
47	EMPTY	0.0505	0.1285
48	TAI130048	0.6059	0.4875
49	TAI130136	0.5874	0.4690
50	TAI130224	0.4344	0.3404
51	TAI130312	0.4355	0.3549
52	TRR130000	0.4650	0.5012
53	TSI000001	0.1127	0.1588
54	TSI000002	0.0105	0.0110
55	TSO000001	0.0577	0.0809
56	TSO000002	0.1040	0.1360
57	TAF020136	0.3989	0.4457
58	TAF120312	0.4639	0.4186
59	TAF130312	0.4862	0.4226
60	EMPTY	0.0105	0.9830
61	EMPTY	0.0104	0.9647
62	EMPTY	0.0114	1.0504
63	EMPTY	0.0101	0.9196
64	EMPTY	0.0061	0.9730
65	EMPTY	0.0053	0.8163
66	EMPTY	0.0048	0.7228
67	EMPTY	0.0053	0.7758
68	EMPTY	0.0051	0.7311
69	EMPTY	0.0051	0.7151
70	EMPTY	0.0065	0.8933
71	EMPTY	0.0047	0.6250
72	EMPTY	0.0053	0.6921
73	EMPTY	0.0055	0.7005
74	EMPTY	0.0053	0.6622
75	EMPTY	0.0080	0.9801
76	EMPTY	0.0065	0.7828
77	EMPTY	0.0055	0.6471
78	EMPTY	0.0055	0.6298
79	EMPTY	0.0051	0.5706
80	PAN020136	0.1862	0.5670
81	PAN050136	0.5676	0.9470
82	PAN070136	0.2487	0.5990
83	PAN080136	0.2807	1.4163
84	PAN090136	0.1694	0.7472
85	PAN100136	0.1434	1.0350
86	PAN105136	0.0626	0.6835
87	PAN110136	0.1160	1.0916
88	PAN115136	0.0579	0.5429
89	PAN120136	0.0641	0.6404
90	PAN125136	0.0885	0.7757
91	PAN130136	0.1160	0.9914
92	PAN120048	0.1785	1.0239
93	PAN130048	0.2212	0.9091
94	PAN120224	0.1603	0.8286
95	PAN130224	0.1800	1.0502
96	PAN120312	0.1419	0.7037
97	PAN130312	0.1647	0.6858
98	PAB000136	0.0064	0.0160
99	PAB100136	0.0878	0.2655
100	PAB125136	0.0878	0.2825

Test: Aug01_02

dif

Date: Wed Aug 1 11:51:57 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1343	0.3381
102	PRV000001	0.0513	0.2601
103	PSR000001	0.1465	0.5022
104	PFM000001	0.4505	0.7468
105	PAN000136	2.3437	0.9142
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	3.3708
108	EMPTY	0.1183	2.0807
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.2032	0.1995
113	VPW000002	0.0352	0.0296
114	VPW000003	0.0508	0.0347
115	VPW000004	0.0195	0.0186
116	VPW000005	0.1289	0.0926
117	VPW000006	0.0508	0.0346
118	IPW000001	0.2343	0.0422
119	IPW000002	4.7999	0.3693
120	IPW000003	2.6523	0.1996
121	IPW000004	4.1113	1.0824
122	IPW000005	0.1661	0.0654
123	IPW000006	0.1953	0.0739
124	EMPTY	0.0001	0.4695
125	EMPTY	0.0010	6.6225
126	EMPTY	0.0006	3.4091
127	EMPTY	0.0005	2.9940
128	IHT000001	0.0664	0.0510
129	IHT000002	0.0430	0.0321
130	IHT000003	0.0469	0.0350
131	IHT000004	0.0430	0.0325
132	IHT000005	0.1133	0.0867
133	IHT000006	0.0742	0.0591
134	IHT000007	0.0625	0.0472
135	IHT000008	0.0469	0.0358
136	IHT000009	0.0195	0.0148
137	IHT000010	0.1875	0.1407
138	IHT000011	0.2266	0.1720
139	IHT000012	0.1914	0.1477
140	IHT000013	0.0859	0.0928
141	IHT000014	0.2969	0.2305
142	IHT000015	0.1172	0.1217
143	IHT000016	0.0274	0.0305
144	IHT000017	1.5429	1.4639
145	IHT000018	0.2969	0.2738
146	IHT000019	0.2773	0.2666
147	IHT000020	0.2227	0.2083
148	IHT000021	0.3359	20.7576
149	IHT000022	0.1055	0.1127
150	IHT000023	0.2188	0.2070
151	IHT000024	0.2344	0.3293
152	IHT000025	0.2305	0.2191
153	IHT000026	0.1914	0.1803
154	IHT000027	0.0157	0.0172
155	IHT000028	0.0235	0.0254

Test: Aug01_02 dif Date: Wed Aug 1 11:51:57 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1563	0.1480
157	IHT000030	0.0938	0.0868
158	IHT000031	0.0312	0.0292
159	IHT000032	0.0469	0.0435
160	IHT000033	0.0313	0.0290
161	IHT000034	0.0469	0.0495
162	IHT000035	0.0117	0.0094
163	IHT000036	0.0234	0.0251

Velocity 1 = 14.0468 (ft/sec) (+/- 1.8649 %)
 Velocity 2 = 13.4155 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.2742 (psi)
 Tsat in = 267.7224 (deg F) Tsat out = 264.3325 (deg F)
 Phi inner = 99.9101 (kBtu/hr-ft2) (+/- 1.4148 %)
 Phi outer = 100.3663 (kBtu/hr-ft2) (+/- 1.5433 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.7378	78.5887	78.1591	1.8973e-01	1.9000e+00
1	TRF0000002	78.1999	78.6230	78.4580	1.4361e-01	1.9000e+00
2	TFM0000001	87.0529	87.8935	87.4523	1.9101e-01	1.9002e+00
3	TIN0000001	86.5249	87.1568	86.7735	1.3584e-01	1.9002e+00
4	TRV0000001	87.3086	88.2519	87.8538	1.9170e-01	1.9002e+00
5	TSR0000001	117.8094	119.2387	118.6749	2.8382e-01	1.9016e+00
6	TAO020136	68.5101	71.1800	70.1254	6.6008e-01	1.9000e+00
7	TAO050136	126.0548	126.8668	126.4286	1.8642e-01	1.9021e+00
8	TAO070136	126.7748	127.6947	127.2370	2.1480e-01	1.9022e+00
9	TAO080136	137.7906	138.4980	138.0820	1.6383e-01	1.9031e+00
10	TAO090136	139.2403	140.0475	139.5477	2.0265e-01	1.9033e+00
11	TAO100136	135.9499	136.7584	136.3946	1.8158e-01	1.9030e+00
12	TAO105136	136.4896	137.5011	136.9347	2.2310e-01	1.9030e+00
13	TAO110136	139.2780	139.8821	139.5603	1.7470e-01	1.9033e+00
14	TAO115136	136.8571	137.8690	137.2905	2.2760e-01	1.9030e+00
15	TAO120136	145.4382	146.2425	145.8040	1.7662e-01	1.9039e+00
16	TAO125136	96.5608	97.9154	97.3731	3.1272e-01	1.9005e+00
17	TAO130136	140.7631	141.4673	141.1049	1.5038e-01	1.9034e+00
18	TAO120048	86.8320	87.5693	87.1691	1.7528e-01	1.9002e+00
19	TAO130048	144.0219	144.8249	144.3555	1.6781e-01	1.9037e+00
20	TAO120224	143.4222	144.2263	143.7763	1.9834e-01	1.9037e+00
21	TAO130224	137.5302	138.7347	138.0633	2.6233e-01	1.9031e+00
22	TAO120312	144.4731	145.5799	145.0204	2.4394e-01	1.9038e+00
23	TAO130312	143.6246	144.3291	144.0346	1.9034e-01	1.9037e+00
24	TRT020000	123.1975	124.1188	123.6521	2.0071e-01	1.9019e+00
25	TRT070000	136.8925	137.7043	137.3023	1.9671e-01	1.9030e+00
26	TRT100000	146.4775	147.2783	146.9177	1.9318e-01	1.9040e+00
27	TRT120000	145.7358	146.5394	146.0972	1.8704e-01	1.9039e+00
28	TRT125000	450.0835	450.5125	450.2723	1.0817e-01	1.9950e+00
29	TRT130000	146.3175	147.1202	146.7023	1.8163e-01	1.9040e+00
30	EMPTY	39.3761	40.0646	39.8903	1.8868e-01	1.9011e+00
31	TAF050136	100.2829	101.3205	100.8225	2.2970e-01	1.9006e+00
32	TAF070136	105.6275	106.7620	106.0733	2.3793e-01	1.9009e+00
33	TAF080136	136.7728	138.3782	137.4516	4.0546e-01	1.9031e+00
34	TAF090136	80.7716	82.0379	81.4471	2.9313e-01	1.9001e+00
35	TAF100136	113.2922	114.2200	113.6635	2.1545e-01	1.9013e+00
36	TAF105136	114.6170	115.4371	115.0791	2.1871e-01	1.9014e+00
37	TAF110136	116.0324	116.8534	116.4392	1.9223e-01	1.9015e+00
38	TAF115136	117.9716	118.7908	118.3976	2.1347e-01	1.9016e+00
39	TAF120136	130.3401	131.1516	130.6483	1.8757e-01	1.9025e+00
40	TAF125136	120.4918	121.7131	121.0094	2.7304e-01	1.9018e+00
41	TAF130136	122.0899	123.0103	122.5521	1.6681e-01	1.9019e+00
42	TAF120048	122.2386	123.2656	122.8099	2.3021e-01	1.9019e+00
43	TAF130048	125.1254	125.8401	125.4967	1.5536e-01	1.9021e+00
44	TAF120224	118.4200	119.3421	118.8053	2.0869e-01	1.9016e+00
45	TAF130224	120.4616	121.0780	120.7782	1.4349e-01	1.9017e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1078	2.0898e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.4450	1.0627e-01	1.9010e+00
48	TAI130048	138.2831	139.8984	139.0302	3.4365e-01	1.9032e+00
49	TAI130136	139.3363	140.2428	139.7634	2.2990e-01	1.9033e+00
50	TAI130224	142.0249	143.2348	142.6341	2.7857e-01	1.9036e+00
51	TAI130312	136.2045	136.9134	136.5448	1.7441e-01	1.9030e+00
52	TRR130000	89.1857	90.4412	89.6799	2.8202e-01	1.9003e+00
53	TSI000001	70.7501	71.4962	71.1420	2.0097e-01	1.9000e+00
54	TSI000002	90.1364	94.4190	92.1935	9.7494e-01	1.9003e+00
55	TSO000001	71.0458	71.9008	71.4094	2.1258e-01	1.9000e+00
56	TSO000002	77.0325	77.9866	77.4906	2.3113e-01	1.9000e+00
57	TAF020136	90.4963	91.4443	90.9432	2.2872e-01	1.9003e+00
58	TAF120312	120.3975	121.4220	120.9055	2.6480e-01	1.9017e+00
59	TAF130312	125.9735	127.1946	126.7143	2.7284e-01	1.9022e+00
60	EMPTY	1.3330	1.3428	1.3354	2.6543e-03	0.0000e+00
61	EMPTY	1.3379	1.3428	1.3421	1.7115e-03	0.0000e+00
62	EMPTY	1.3428	1.3525	1.3479	1.5314e-03	0.0000e+00
63	EMPTY	1.3574	1.3623	1.3585	2.0432e-03	0.0000e+00
64	EMPTY	0.7422	0.7471	0.7428	1.6028e-03	0.0000e+00
65	EMPTY	0.7617	0.7666	0.7653	2.1635e-03	0.0000e+00
66	EMPTY	0.7764	0.7813	0.7806	1.7115e-03	0.0000e+00
67	EMPTY	0.7959	0.8008	0.7972	2.1635e-03	0.0000e+00
68	EMPTY	0.8057	0.8154	0.8106	1.5566e-03	0.0000e+00
69	EMPTY	0.8252	0.8301	0.8286	2.2603e-03	0.0000e+00
70	EMPTY	0.8350	0.8447	0.8433	2.4662e-03	0.0000e+00
71	EMPTY	0.8594	0.8643	0.8642	6.9053e-04	0.0000e+00
72	EMPTY	0.8740	0.8789	0.8779	1.9730e-03	0.0000e+00
73	EMPTY	0.8936	0.8984	0.8976	1.8950e-03	0.0000e+00
74	EMPTY	0.9082	0.9131	0.9128	1.1714e-03	0.0000e+00
75	EMPTY	0.9277	0.9326	0.9281	1.3381e-03	0.0000e+00
76	EMPTY	0.9424	0.9424	0.9424	0.0000e+00	0.0000e+00
77	EMPTY	0.9570	0.9668	0.9615	1.6624e-03	0.0000e+00
78	EMPTY	0.9814	0.9863	0.9817	1.1714e-03	0.0000e+00
79	EMPTY	1.0010	1.0059	1.0044	2.2603e-03	0.0000e+00
80	PAN020136	8.1739	8.7842	8.5279	1.1406e-01	8.7026e-01
81	PAN050136	13.7112	14.9319	14.4223	2.7158e-01	1.6804e+00
82	PAN070136	10.6786	11.4415	11.0967	1.4642e-01	8.7044e-01
83	PAN080136	4.3078	4.8418	4.5428	1.2602e-01	8.7007e-01
84	PAN090136	4.7246	5.3349	5.0633	1.1653e-01	8.7009e-01
85	PAN100136	1.8018	2.4122	2.1436	1.3101e-01	8.7002e-01
86	PAN105136	1.5310	1.8362	1.6821	8.9200e-02	8.7001e-01
87	PAN110136	2.4041	2.9382	2.6086	1.1983e-01	8.7002e-01
88	PAN115136	2.3161	2.9264	2.5465	1.3914e-01	8.7002e-01
89	PAN120136	2.1385	2.5200	2.3781	9.3771e-02	8.7002e-01
90	PAN125136	2.7385	3.1963	2.9979	8.9877e-02	8.7003e-01
91	PAN130136	3.2198	3.5250	3.3480	6.4370e-02	8.7004e-01
92	PAN120048	3.0020	3.4597	3.2110	1.1411e-01	8.7004e-01
93	PAN130048	6.6671	7.1248	6.8837	9.2943e-02	8.7017e-01
94	PAN120224	4.0820	4.7686	4.4619	1.3033e-01	8.7007e-01
95	PAN130224	2.8069	3.1884	3.0099	9.1980e-02	8.7003e-01
96	PAN120312	4.6980	5.1558	4.9651	9.8996e-02	8.7009e-01
97	PAN130312	6.8607	7.3185	7.0194	1.0436e-01	8.7018e-01
98	PAB000136	40.1144	40.3891	40.2380	6.2211e-02	5.8866e-01
99	PAB100136	38.4489	38.6320	38.5212	4.2471e-02	5.8794e-01
100	PAB125136	37.8820	38.0651	38.0083	3.8754e-02	5.8773e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7696	40.2579	40.0431	1.2468e-01	7.5665e-01
102	PRV0000001	19.6068	19.8509	19.7167	5.0842e-02	7.5162e-01
103	PSR0000001	37.0652	37.3093	37.1262	6.6404e-02	7.5572e-01
104	PFM0000001	29.8127	30.6367	30.2448	1.8957e-01	5.0568e-01
105	PAN000136	59.4836	66.3500	62.9626	1.6440e+00	4.9225e+00
106	PFM0000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
108	EMPTY	-6.6064	-3.9795	-5.5696	6.4053e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	101.4911	102.2724	101.8076	2.0462e-01	1.0145e+00
113	VPW0000002	119.0768	119.2721	119.1431	9.3461e-02	1.0803e+00
114	VPW0000003	146.3417	146.7323	146.4706	1.1578e-01	1.1952e+00
115	VPW0000004	104.3983	104.7889	104.6756	1.0507e-01	1.0250e+00
116	VPW0000005	139.1564	139.5470	139.3204	1.2701e-01	1.1640e+00
117	VPW0000006	146.7886	147.3745	147.1441	1.3491e-01	1.1981e+00
118	IPW0000001	556.4554	566.2172	560.9850	2.7734e+00	9.2331e+00
119	IPW0000002	1279.5073	1293.1661	1286.0248	3.6046e+00	1.2993e+01
120	IPW0000003	1317.0375	1324.8374	1320.1573	1.9698e+00	1.3205e+01
121	IPW0000004	381.5354	382.5120	381.8576	2.7213e-01	3.6194e+00
122	IPW0000005	252.3317	253.7964	253.2204	3.2250e-01	2.8287e+00
123	IPW0000006	261.8409	263.3057	262.6221	3.5568e-01	2.8817e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	4.3011e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0130	3.3613e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0146	2.8744e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	2.9413e-03	0.0000e+00
128	IHT0000001	129.2856	132.0200	130.4106	6.4785e-01	4.3024e+00
129	IHT0000002	132.9702	135.7046	134.1655	6.3336e-01	4.3139e+00
130	IHT0000003	133.1167	135.4605	134.1909	6.0393e-01	4.3140e+00
131	IHT0000004	131.4378	133.7816	132.4457	5.7094e-01	4.3086e+00
132	IHT0000005	129.8716	132.2153	130.9145	5.8209e-01	4.3039e+00
133	IHT0000006	124.5493	126.8930	125.7134	5.2193e-01	4.2884e+00
134	IHT0000007	131.5806	133.9243	132.6470	5.3410e-01	4.3092e+00
135	IHT0000008	130.3110	132.4594	131.1860	4.7881e-01	4.3048e+00
136	IHT0000009	130.8331	133.3721	131.8291	5.6531e-01	4.3067e+00
137	IHT0000010	132.0838	134.8182	133.5057	5.5389e-01	4.3119e+00
138	IHT0000011	130.7505	133.2895	131.8442	5.2348e-01	4.3068e+00
139	IHT0000012	128.3504	131.4754	129.7215	6.0424e-01	4.3003e+00
140	IHT0000013	91.3499	94.0843	92.6155	5.8692e-01	4.2033e+00
141	IHT0000014	127.7344	130.2734	128.9883	5.4973e-01	4.2981e+00
142	IHT0000015	95.0683	97.8027	96.4629	5.1601e-01	4.2119e+00
143	IHT0000016	88.7320	91.0757	89.8960	5.0062e-01	4.1974e+00
144	IHT0000017	105.1157	109.4126	107.2212	8.9832e-01	4.2379e+00
145	IHT0000018	107.6397	110.1788	108.9600	5.2432e-01	4.2423e+00
146	IHT0000019	103.5569	105.5101	104.4515	5.2658e-01	4.2310e+00
147	IHT0000020	106.1936	108.1468	107.2132	5.0423e-01	4.2379e+00
148	IHT0000021	-2.4151	0.1240	-1.2667	6.1970e-01	4.1000e+00
149	IHT0000022	92.9725	94.9256	93.7303	4.7127e-01	4.2058e+00
150	IHT0000023	104.8528	107.0012	105.9582	4.8425e-01	4.2347e+00
151	IHT0000024	70.4214	72.5699	71.3863	4.7582e-01	4.1617e+00
152	IHT0000025	104.6950	106.6481	105.4958	5.2237e-01	4.2335e+00
153	IHT0000026	105.2997	107.2528	106.4013	5.6601e-01	4.2358e+00
154	IHT0000027	90.0053	92.1537	91.1498	5.7994e-01	4.2001e+00
155	IHT0000028	91.1584	93.8927	92.6076	6.9148e-01	4.2033e+00

Test: Aug01_03

sum1

Date: Wed Aug 1 12:18:18 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	107.1439	105.8627	6.8021e-01	4.2345e+00
157	IHT000030	107.0162	109.7506	108.3366	7.0538e-01	4.2407e+00
158	IHT000031	105.5176	108.4473	106.8926	6.7308e-01	4.2371e+00
159	IHT000032	106.9336	109.2774	107.9649	6.3263e-01	4.2398e+00
160	IHT000033	106.7383	109.2773	107.9297	6.4022e-01	4.2397e+00
161	IHT000034	94.1031	96.0562	94.9780	5.4710e-01	4.2086e+00
162	IHT000035	124.0910	126.4348	125.0011	5.2439e-01	4.2863e+00
163	IHT000036	92.9763	94.9294	93.6521	4.8038e-01	4.2056e+00

Velocity 1 = 14.0386 (ft/sec) (+/- 1.8653 %)
Velocity 2 = 13.4158 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.2706 (psi)
Tsat in = 267.5212 (deg F) Tsat out = 264.1394 (deg F)
Phi inner = 101.7311 (kBtu/hr-ft2) (+/- 1.4097 %)
Phi outer = 100.9711 (kBtu/hr-ft2) (+/- 1.5426 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9506	78.5887	78.2442	2.0106e-01	1.9000e+00
1	TRF000002	78.1999	78.8345	78.5299	1.2209e-01	1.9000e+00
2	TFM000001	87.2635	87.9991	87.7022	1.8331e-01	1.9002e+00
3	TIN000001	86.7357	87.4727	87.0956	1.6901e-01	1.9002e+00
4	TRV000001	87.7277	88.6712	88.1282	2.3838e-01	1.9002e+00
5	TSR000001	117.2996	119.6478	118.9752	4.8655e-01	1.9016e+00
6	TAO020136	69.2584	71.7127	70.4008	6.0264e-01	1.9000e+00
7	TAO050136	126.2573	127.0709	126.7025	1.7891e-01	1.9022e+00
8	TAO070136	126.8771	127.7969	127.3534	2.4481e-01	1.9022e+00
9	TAO080136	137.9931	138.6986	138.3094	1.6678e-01	1.9031e+00
10	TAO090136	139.4425	140.3499	139.7915	1.9774e-01	1.9033e+00
11	TAO100136	136.3544	137.0611	136.7197	1.7568e-01	1.9030e+00
12	TAO105136	136.6915	137.7041	137.1756	2.4565e-01	1.9030e+00
13	TAO110136	139.4797	140.1831	139.8349	1.7511e-01	1.9033e+00
14	TAO115136	137.0602	137.9704	137.5878	2.2776e-01	1.9031e+00
15	TAO120136	145.6389	146.4431	146.1313	1.8068e-01	1.9039e+00
16	TAO125136	96.5612	97.8092	97.2383	2.9678e-01	1.9005e+00
17	TAO130136	141.0664	141.6658	141.3463	1.6767e-01	1.9034e+00
18	TAO120048	88.1967	88.9320	88.5898	1.7227e-01	1.9002e+00
19	TAO130048	144.2234	145.0248	144.5741	2.0605e-01	1.9037e+00
20	TAO120224	143.4222	144.2275	143.7304	2.0468e-01	1.9037e+00
21	TAO130224	137.9296	138.7347	138.2781	2.0497e-01	1.9031e+00
22	TAO120312	144.8757	145.7809	145.2919	2.2171e-01	1.9038e+00
23	TAO130312	143.9256	144.7297	144.3015	1.9879e-01	1.9037e+00
24	TRT020000	123.4023	124.4260	123.9039	2.4228e-01	1.9020e+00
25	TRT070000	137.1969	138.0085	137.5684	1.8634e-01	1.9031e+00
26	TRT100000	146.7777	147.4793	147.1201	1.8456e-01	1.9040e+00
27	TRT120000	146.1366	146.7397	146.3880	1.5621e-01	1.9039e+00
28	TRT125000	214.4657	450.5125	430.2750	4.9336e+01	1.9855e+00
29	TRT130000	146.5175	147.1202	146.7448	1.4309e-01	1.9040e+00
30	EMPTY	39.3761	40.0646	39.8489	2.1950e-01	1.9011e+00
31	TAF050136	100.5938	101.4249	101.0859	2.1163e-01	1.9007e+00
32	TAF070136	105.8334	106.8659	106.3641	2.2347e-01	1.9009e+00
33	TAF080136	136.9754	138.5806	137.6949	3.2987e-01	1.9031e+00
34	TAF090136	82.0365	83.0918	82.5873	2.8602e-01	1.9001e+00
35	TAF100136	113.6017	114.3234	113.9994	1.7550e-01	1.9013e+00
36	TAF105136	114.8208	116.0480	115.3183	2.4353e-01	1.9014e+00
37	TAF110136	116.3401	116.9565	116.7361	1.6192e-01	1.9015e+00
38	TAF115136	118.0746	119.4047	118.6576	2.6104e-01	1.9016e+00
39	TAF120136	130.5421	131.3535	130.9417	2.0810e-01	1.9025e+00
40	TAF125136	120.7970	122.0185	121.2962	2.7187e-01	1.9018e+00
41	TAF130136	122.4991	123.2140	122.8643	1.9697e-01	1.9019e+00
42	TAF120048	122.3415	123.4710	122.9967	2.5219e-01	1.9019e+00
43	TAF130048	125.4309	126.0435	125.7351	1.9061e-01	1.9021e+00
44	TAF120224	118.5230	119.7510	119.1063	2.5780e-01	1.9016e+00
45	TAF130224	120.6673	121.4891	121.0802	1.7295e-01	1.9018e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.0773e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.4404	1.6750e-01	1.9010e+00
48	TAI130048	138.6872	139.8984	139.3349	3.3435e-01	1.9032e+00
49	TAI130136	139.5374	140.4437	140.0673	2.0928e-01	1.9033e+00
50	TAI130224	142.2266	143.6384	142.9185	3.5345e-01	1.9036e+00
51	TAI130312	136.4069	137.2172	136.8302	2.3204e-01	1.9030e+00
52	TRR130000	89.3960	91.0689	90.2382	3.5431e-01	1.9003e+00
53	TSI000001	70.6442	71.4962	71.0468	1.9983e-01	1.9000e+00
54	TSI000002	89.9283	94.3130	92.4339	1.0460e+00	1.9003e+00
55	TSO000001	70.9382	71.7939	71.3044	2.0380e-01	1.9000e+00
56	TSO000002	77.1384	78.0930	77.5098	2.0692e-01	1.9000e+00
57	TAF020136	90.8120	91.6552	91.2529	2.0912e-01	1.9003e+00
58	TAF120312	120.5004	121.8310	121.1573	2.8728e-01	1.9018e+00
59	TAF130312	126.3802	127.4986	126.9931	2.5140e-01	1.9022e+00
60	EMPTY	1.3330	1.3428	1.3390	3.0067e-03	0.0000e+00
61	EMPTY	1.3428	1.3525	1.3463	2.9660e-03	0.0000e+00
62	EMPTY	1.3477	1.3623	1.3529	2.7621e-03	0.0000e+00
63	EMPTY	1.3574	1.3672	1.3630	1.9754e-03	0.0000e+00
64	EMPTY	0.7422	0.7471	0.7459	2.1065e-03	0.0000e+00
65	EMPTY	0.7568	0.7715	0.7667	1.8429e-03	0.0000e+00
66	EMPTY	0.7813	0.7861	0.7820	1.8082e-03	0.0000e+00
67	EMPTY	0.7959	0.8008	0.8002	1.6028e-03	0.0000e+00
68	EMPTY	0.8105	0.8154	0.8132	2.4583e-03	0.0000e+00
69	EMPTY	0.8301	0.8350	0.8303	9.6655e-04	0.0000e+00
70	EMPTY	0.8398	0.8447	0.8445	9.6655e-04	0.0000e+00
71	EMPTY	0.8643	0.8789	0.8654	2.7124e-03	0.0000e+00
72	EMPTY	0.8789	0.8789	0.8789	0.0000e+00	0.0000e+00
73	EMPTY	0.8984	0.8984	0.8984	0.0000e+00	0.0000e+00
74	EMPTY	0.9131	0.9180	0.9132	6.9053e-04	0.0000e+00
75	EMPTY	0.9277	0.9326	0.9307	2.4164e-03	0.0000e+00
76	EMPTY	0.9424	0.9473	0.9426	9.6655e-04	0.0000e+00
77	EMPTY	0.9619	0.9668	0.9620	6.9053e-04	0.0000e+00
78	EMPTY	0.9814	0.9912	0.9825	2.2689e-03	0.0000e+00
79	EMPTY	1.0010	1.0059	1.0057	9.6655e-04	0.0000e+00
80	PAN020136	8.3265	8.9368	8.5965	1.3976e-01	8.7027e-01
81	PAN050136	13.8638	14.7794	14.3491	2.3211e-01	1.6804e+00
82	PAN070136	10.7549	11.4415	11.1440	1.4480e-01	8.7045e-01
83	PAN080136	4.3078	4.7655	4.5656	1.0555e-01	8.7007e-01
84	PAN090136	4.8009	5.3349	5.0420	1.1775e-01	8.7009e-01
85	PAN100136	1.9544	2.4885	2.2199	1.3101e-01	8.7002e-01
86	PAN105136	1.3021	1.7599	1.6043	1.1003e-01	8.7001e-01
87	PAN110136	2.3278	2.7856	2.5842	1.1714e-01	8.7002e-01
88	PAN115136	2.2398	2.7738	2.5404	1.1679e-01	8.7002e-01
89	PAN120136	2.2148	2.5963	2.3918	9.4314e-02	8.7002e-01
90	PAN125136	2.8148	3.1963	3.0086	7.2641e-02	8.7003e-01
91	PAN130136	3.1435	3.5250	3.3327	8.4761e-02	8.7004e-01
92	PAN120048	3.0020	3.5360	3.2339	1.1217e-01	8.7004e-01
93	PAN130048	6.7434	7.1248	6.9219	1.0635e-01	8.7017e-01
94	PAN120224	4.2345	4.6923	4.4573	1.1518e-01	8.7007e-01
95	PAN130224	2.8069	3.2647	3.0343	1.0396e-01	8.7003e-01
96	PAN120312	4.7743	5.1558	4.9697	9.8888e-02	8.7009e-01
97	PAN130312	6.8607	7.2422	7.0225	1.0527e-01	8.7018e-01
98	PAB000136	39.9771	40.2518	40.1025	6.3947e-02	5.8860e-01
99	PAB100136	38.3116	38.4947	38.3967	4.7166e-02	5.8789e-01
100	PAB125136	37.7904	37.9735	37.9847	5.0154e-02	5.8768e-01

Test: Aug01_03

sum2

Date: Wed Aug 1 12:18:18 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.6476	40.2579	40.0138	1.3050e-01	7.5664e-01
102	PRV0000001	19.7289	19.8509	19.7948	6.1457e-02	7.5163e-01
103	PSR0000001	36.8210	37.1873	37.0066	7.0793e-02	7.5568e-01
104	PFM0000001	29.7211	30.8198	30.2082	2.4983e-01	5.0567e-01
105	PAN000136	59.9413	65.8923	62.8619	1.3398e+00	4.9225e+00
106	PFM0000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0063	2.2603e-03	0.0000e+00
108	EMPTY	-6.7236	-3.6328	-5.5281	7.1299e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	101.4911	102.4677	101.9170	2.5170e-01	1.0149e+00
113	VPW0000002	118.8815	119.4674	119.1236	1.2823e-01	1.0803e+00
114	VPW0000003	146.3417	146.9276	146.6464	1.5862e-01	1.1959e+00
115	VPW0000004	104.3983	105.3748	104.7264	2.2125e-01	1.0252e+00
116	VPW0000005	138.9611	139.9377	139.4493	2.1702e-01	1.1645e+00
117	VPW0000006	146.9839	147.9605	147.3081	1.9575e-01	1.1989e+00
118	IPW0000001	533.0273	544.7414	539.9777	3.0593e+00	9.1546e+00
119	IPW0000002	1312.6788	1322.4352	1318.1033	2.7956e+00	1.3192e+01
120	IPW0000003	1338.4874	1348.2374	1343.5962	2.3928e+00	1.3352e+01
121	IPW0000004	377.1409	382.5120	380.2072	1.0535e+00	3.6086e+00
122	IPW0000005	253.3081	255.2611	254.1186	4.6903e-01	2.8338e+00
123	IPW0000006	265.2588	267.2119	266.1280	5.2469e-01	2.9017e+00
124	EMPTY	-0.0293	-0.0098	-0.0197	4.0626e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0127	4.1853e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0153	3.2733e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	3.8409e-03	0.0000e+00
128	IHT0000001	129.0903	131.6294	130.4302	5.7860e-01	4.3025e+00
129	IHT0000002	132.9702	135.5093	134.2163	5.3363e-01	4.3141e+00
130	IHT0000003	133.1167	135.6558	134.2652	5.5333e-01	4.3142e+00
131	IHT0000004	131.6331	133.7816	132.5551	5.2651e-01	4.3090e+00
132	IHT0000005	129.8716	132.2153	130.9888	5.5248e-01	4.3042e+00
133	IHT0000006	124.7446	126.8930	125.8540	5.1966e-01	4.2888e+00
134	IHT0000007	131.5806	133.9243	132.8032	5.2469e-01	4.3097e+00
135	IHT0000008	130.3110	132.2641	131.3032	5.0198e-01	4.3051e+00
136	IHT0000009	130.8331	132.9815	131.8877	5.7318e-01	4.3069e+00
137	IHT0000010	132.6698	135.0135	133.6542	5.1442e-01	4.3123e+00
138	IHT0000011	131.1411	133.2895	132.0708	4.8095e-01	4.3075e+00
139	IHT0000012	129.1316	131.4754	129.8700	4.9172e-01	4.3008e+00
140	IHT0000013	91.7405	94.0843	92.6507	5.3614e-01	4.2034e+00
141	IHT0000014	128.1250	130.2734	129.0977	5.0144e-01	4.2984e+00
142	IHT0000015	95.4590	97.8027	96.4551	5.4140e-01	4.2119e+00
143	IHT0000016	88.9273	91.0757	89.9546	5.6608e-01	4.1975e+00
144	IHT0000017	105.1157	108.6313	107.1431	7.6197e-01	4.2377e+00
145	IHT0000018	107.8350	110.1788	108.7100	5.5136e-01	4.2417e+00
146	IHT0000019	103.3616	105.7054	104.3655	5.0841e-01	4.2307e+00
147	IHT0000020	106.1936	108.3421	107.1976	5.0688e-01	4.2378e+00
148	IHT0000021	-2.6104	-0.0714	-1.3018	6.3779e-01	4.1000e+00
149	IHT0000022	92.7772	95.1209	93.7928	5.4104e-01	4.2059e+00
150	IHT0000023	105.0481	107.3918	105.9855	5.1448e-01	4.2348e+00
151	IHT0000024	70.4214	72.5699	71.3628	5.1098e-01	4.1616e+00
152	IHT0000025	104.4997	106.8435	105.5231	4.9215e-01	4.2336e+00
153	IHT0000026	105.2997	107.6435	106.3857	4.8674e-01	4.2358e+00
154	IHT0000027	90.0053	92.1537	91.2006	4.9856e-01	4.2002e+00
155	IHT0000028	91.5490	94.2834	92.7365	6.1364e-01	4.2036e+00

Test: Aug01_03

sum2

Date: Wed Aug 1 12:18:18 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	107.3392	105.9331	6.0618e-01	4.2346e+00
157	IHT000030	107.0162	109.7506	108.3639	6.2172e-01	4.2408e+00
158	IHT000031	105.7129	108.2520	106.9707	6.1023e-01	4.2372e+00
159	IHT000032	106.9336	109.2774	108.0664	6.1763e-01	4.2400e+00
160	IHT000033	106.9336	109.2773	108.0078	6.1542e-01	4.2399e+00
161	IHT000034	93.9077	95.8609	94.9937	4.9781e-01	4.2086e+00
162	IHT000035	124.0910	126.2395	125.1027	5.3334e-01	4.2866e+00
163	IHT000036	92.5856	94.3435	93.6208	4.3807e-01	4.2055e+00

Test: Aug01_03 dif Date: Wed Aug 1 12:18:18 1990 Page: 1

Velocity 1 = 0.008200 (ft/sec)

Velocity 2 = 0.000300 (ft/sec)

Pressure Drop = 0.003600 (psi)

Tsat in = 0.201202 (deg F) Tsat out = 0.193085 (deg F)

Phi inner = 1.820999 (kBtu/hr-ft2) Phi outer = 0.604797 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0851	0.1089
1	TRF000002	0.0719	0.0916
2	TFM000001	0.2499	0.2858
3	TIN000001	0.3221	0.3712
4	TRV000001	0.2744	0.3123
5	TSR000001	0.3003	0.2530
6	TAO020136	0.2754	0.3927
7	TAO050136	0.2739	0.2166
8	TAO070136	0.1164	0.0915
9	TAO080136	0.2274	0.1647
10	TAO090136	0.2438	0.1747
11	TAO100136	0.3251	0.2383
12	TAO105136	0.2409	0.1759
13	TAO110136	0.2746	0.1968
14	TAO115136	0.2973	0.2165
15	TAO120136	0.3273	0.2245
16	TAO125136	0.1348	0.1384
17	TAO130136	0.2414	0.1711
18	TAO120048	1.4207	1.6298
19	TAO130048	0.2186	0.1514
20	TAO120224	0.0459	0.0319
21	TAO130224	0.2148	0.1556
22	TAO120312	0.2715	0.1872
23	TAO130312	0.2669	0.1853
24	TRT020000	0.2518	0.2036
25	TRT070000	0.2661	0.1938
26	TRT100000	0.2024	0.1378
27	TRT120000	0.2908	0.1990
28	TRT125000	19.9973	4.4412
29	TRT130000	0.0425	0.0290
30	EMPTY	0.0414	0.1038
31	TAF050136	0.2634	0.2612
32	TAF070136	0.2908	0.2741
33	TAF080136	0.2433	0.1770
34	TAF090136	1.1402	1.3999
35	TAF100136	0.3359	0.2955
36	TAF105136	0.2392	0.2079
37	TAF110136	0.2969	0.2550
38	TAF115136	0.2600	0.2196
39	TAF120136	0.2934	0.2246
40	TAF125136	0.2868	0.2370
41	TAF130136	0.3122	0.2548
42	TAF120048	0.1868	0.1521
43	TAF130048	0.2384	0.1900
44	TAF120224	0.3010	0.2534
45	TAF130224	0.3020	0.2500

#	Name	Abs Diff	%Diff
46	EMPTY	0.0184	0.0483
47	EMPTY	0.0046	0.0117
48	TAI130048	0.3047	0.2192
49	TAI130136	0.3039	0.2174
50	TAI130224	0.2844	0.1994
51	TAI130312	0.2854	0.2090
52	TRR130000	0.5583	0.6225
53	TSI000001	0.0952	0.1338
54	TSI000002	0.2404	0.2608
55	TSO000001	0.1050	0.1470
56	TSO000002	0.0192	0.0248
57	TAF020136	0.3097	0.3405
58	TAF120312	0.2518	0.2083
59	TAF130312	0.2788	0.2200
60	EMPTY	0.0036	0.2696
61	EMPTY	0.0042	0.3129
62	EMPTY	0.0050	0.3709
63	EMPTY	0.0045	0.3313
64	EMPTY	0.0031	0.4173
65	EMPTY	0.0014	0.1829
66	EMPTY	0.0014	0.1793
67	EMPTY	0.0030	0.3763
68	EMPTY	0.0026	0.3208
69	EMPTY	0.0017	0.2052
70	EMPTY	0.0012	0.1423
71	EMPTY	0.0012	0.1389
72	EMPTY	0.0010	0.1139
73	EMPTY	0.0008	0.0891
74	EMPTY	0.0004	0.0438
75	EMPTY	0.0026	0.2801
76	EMPTY	0.0002	0.0212
77	EMPTY	0.0005	0.0520
78	EMPTY	0.0008	0.0815
79	EMPTY	0.0013	0.1294
80	PAN020136	0.0686	0.8044
81	PAN050136	0.0732	0.5075
82	PAN070136	0.0473	0.4263
83	PAN080136	0.0228	0.5019
84	PAN090136	0.0213	0.4207
85	PAN100136	0.0763	3.5594
86	PAN105136	0.0778	4.6252
87	PAN110136	0.0244	0.9354
88	PAN115136	0.0061	0.2395
89	PAN120136	0.0137	0.5761
90	PAN125136	0.0107	0.3569
91	PAN130136	0.0153	0.4570
92	PAN120048	0.0229	0.7132
93	PAN130048	0.0382	0.5549
94	PAN120224	0.0046	0.1031
95	PAN130224	0.0244	0.8107
96	PAN120312	0.0046	0.0926
97	PAN130312	0.0031	0.0442
98	PAB000136	0.1355	0.3367
99	PAB100136	0.1245	0.3232
100	PAB125136	0.1236	0.3252

Test: Aug01_03

dif

Date: Wed Aug 1 12:18:18 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0293	0.0732
102	PRV000001	0.0781	0.3961
103	PSR000001	0.1196	0.3222
104	PFM000001	0.0366	0.1210
105	PAN000136	0.1007	0.1599
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	3.2787
108	EMPTY	0.0415	0.7451
109	EMPTY	0.0001	2.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	50.0000
112	VPW000001	0.1094	0.1075
113	VPW000002	0.0195	0.0164
114	VPW000003	0.1758	0.1200
115	VPW000004	0.0508	0.0485
116	VPW000005	0.1289	0.0925
117	VPW000006	0.1640	0.1115
118	IPW000001	21.0073	3.7447
119	IPW000002	32.0785	2.4944
120	IPW000003	23.4388	1.7755
121	IPW000004	1.6504	0.4322
122	IPW000005	0.8982	0.3547
123	IPW000006	3.5059	1.3350
124	EMPTY	0.0009	4.7872
125	EMPTY	0.0003	2.3077
126	EMPTY	0.0007	4.7945
127	EMPTY	0.0003	1.8182
128	IHT000001	0.0196	0.0150
129	IHT000002	0.0508	0.0379
130	IHT000003	0.0743	0.0554
131	IHT000004	0.1094	0.0826
132	IHT000005	0.0743	0.0568
133	IHT000006	0.1406	0.1118
134	IHT000007	0.1562	0.1178
135	IHT000008	0.1172	0.0893
136	IHT000009	0.0586	0.0444
137	IHT000010	0.1485	0.1112
138	IHT000011	0.2266	0.1719
139	IHT000012	0.1485	0.1145
140	IHT000013	0.0352	0.0380
141	IHT000014	0.1094	0.0848
142	IHT000015	0.0078	0.0081
143	IHT000016	0.0586	0.0652
144	IHT000017	0.0781	0.0728
145	IHT000018	0.2500	0.2294
146	IHT000019	0.0860	0.0823
147	IHT000020	0.0156	0.0146
148	IHT000021	0.0351	2.7710
149	IHT000022	0.0625	0.0667
150	IHT000023	0.0273	0.0258
151	IHT000024	0.0235	0.0329
152	IHT000025	0.0273	0.0259
153	IHT000026	0.0156	0.0147
154	IHT000027	0.0508	0.0557
155	IHT000028	0.1289	0.1392

Test: Aug01_03 dif Date: Wed Aug 1 12:18:18 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0704	0.0665
157	IHT000030	0.0273	0.0252
158	IHT000031	0.0781	0.0731
159	IHT000032	0.1015	0.0940
160	IHT000033	0.0781	0.0724
161	IHT000034	0.0157	0.0165
162	IHT000035	0.1016	0.0813
163	IHT000036	0.0313	0.0334

Velocity 1 = 8.0617 (ft/sec) (+/- 3.0359 %)
Velocity 2 = 8.0653 (ft/sec) (+/- 1.9040 %)
Pressure drop = -2.6884 (psi)
Tsat in = 268.0487 (deg F) Tsat out = 271.6555 (deg F)
Phi inner = 100.4013 (kBtu/hr-ft2) (+/- 1.4134 %)
Phi outer = 100.7615 (kBtu/hr-ft2) (+/- 1.5425 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.1634	78.8014	78.5334	1.7083e-01	1.9000e+00
1	TRF000002	78.6230	79.0460	78.8260	1.2789e-01	1.9001e+00
2	TFM000001	86.2151	87.0563	86.6586	1.9370e-01	1.9002e+00
3	TIN000001	85.7881	86.5258	86.0433	1.6502e-01	1.9002e+00
4	TRV000001	86.7909	87.5220	87.1348	1.8000e-01	1.9002e+00
5	TSR000001	128.3826	131.2134	129.8398	7.1617e-01	1.9024e+00
6	TAO020136	70.4325	73.0976	71.7361	6.4512e-01	1.9000e+00
7	TAO050136	148.1447	149.3407	148.7004	2.3673e-01	1.9042e+00
8	TAO070136	151.9014	152.9053	152.3891	2.7196e-01	1.9046e+00
9	TAO080136	165.3026	165.9912	165.5728	1.7456e-01	1.9061e+00
10	TAO090136	169.1949	170.1797	169.7006	2.3042e-01	1.9067e+00
11	TAO100136	165.1982	166.1876	165.6752	2.2397e-01	1.9062e+00
12	TAO105136	167.8035	168.7926	168.2051	2.1922e-01	1.9065e+00
13	TAO110136	172.0497	172.8344	172.5099	1.8797e-01	1.9071e+00
14	TAO115136	169.6142	170.4047	169.9919	2.3399e-01	1.9067e+00
15	TAO120136	180.4164	181.2973	180.8257	1.8100e-01	1.9083e+00
16	TAO125136	116.3842	118.0240	117.2881	4.0442e-01	1.9015e+00
17	TAO130136	173.5321	174.2158	173.8470	1.6595e-01	1.9073e+00
18	TAO120048	87.4632	88.0946	87.8105	1.3810e-01	1.9002e+00
19	TAO130048	179.5758	180.4548	180.0116	1.8006e-01	1.9081e+00
20	TAO120224	177.8423	178.7244	178.2959	1.9298e-01	1.9079e+00
21	TAO130224	168.6732	169.5564	169.2087	2.0116e-01	1.9066e+00
22	TAO120312	181.1838	182.0660	181.5624	2.3748e-01	1.9084e+00
23	TAO130312	177.6750	178.5565	178.1275	1.7583e-01	1.9079e+00
24	TRT020000	143.7169	144.9265	144.3077	2.4767e-01	1.9037e+00
25	TRT070000	165.4717	166.4655	165.9190	1.9079e-01	1.9062e+00
26	TRT100000	181.1317	181.9138	181.5401	1.7172e-01	1.9084e+00
27	TRT120000	183.6868	184.4669	184.0592	1.8678e-01	1.9087e+00
28	TRT125000	238.7853	450.7693	439.9943	3.7673e+01	1.9901e+00
29	TRT130000	182.2529	183.1316	182.5750	1.9557e-01	1.9085e+00
30	EMPTY	39.3761	40.2940	39.8673	2.0215e-01	1.9011e+00
31	TAF050136	109.4670	110.6992	110.0528	2.6131e-01	1.9011e+00
32	TAF070136	117.6159	118.6368	118.1371	2.1477e-01	1.9016e+00
33	TAF080136	163.8657	165.7322	164.8964	3.7867e-01	1.9061e+00
34	TAF090136	80.6676	81.8287	81.2566	2.8601e-01	1.9001e+00
35	TAF100136	132.0177	133.2365	132.5764	2.6304e-01	1.9026e+00
36	TAF105136	134.4430	135.2485	134.8554	2.1711e-01	1.9028e+00
37	TAF110136	136.7247	137.5327	136.9979	1.7558e-01	1.9030e+00
38	TAF115136	139.5671	140.7742	140.1731	2.3043e-01	1.9033e+00
39	TAF120136	159.7132	160.7025	160.1382	2.4337e-01	1.9055e+00
40	TAF125136	144.4208	145.9178	145.0899	3.6914e-01	1.9038e+00
41	TAF130136	147.3313	148.1310	147.6930	2.0307e-01	1.9041e+00
42	TAF120048	147.4891	148.3966	147.9469	2.3678e-01	1.9041e+00
43	TAF130048	152.3289	153.1273	152.6826	1.8393e-01	1.9046e+00
44	TAF120224	140.9412	141.9479	141.4665	2.6132e-01	1.9034e+00
45	TAF130224	144.7105	145.6183	145.0921	2.0305e-01	1.9038e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1124	2.0901e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5276	1.0986e-01	1.9011e+00
48	TAI130048	174.0377	175.6108	174.8145	3.5756e-01	1.9074e+00
49	TAI130136	173.9736	174.6619	174.3258	1.6845e-01	1.9073e+00
50	TAI130224	177.2703	178.4500	177.8307	2.7100e-01	1.9078e+00
51	TAI130312	169.3883	170.1784	169.8087	1.9630e-01	1.9067e+00
52	TRR130000	94.5083	96.1731	95.3971	4.1789e-01	1.9004e+00
53	TSI000001	70.9641	71.7089	71.3031	1.9426e-01	1.9000e+00
54	TSI000002	75.3092	82.6939	78.3165	1.6030e+00	1.9000e+00
55	TSO000001	70.9376	71.6864	71.3292	1.8018e-01	1.9000e+00
56	TSO000002	79.4678	80.4201	79.9523	1.9363e-01	1.9001e+00
57	TAF020136	93.1294	94.1813	93.7458	2.3837e-01	1.9004e+00
58	TAF120312	145.0330	146.1384	145.5896	2.6867e-01	1.9038e+00
59	TAF130312	154.6423	156.0334	155.3286	3.0097e-01	1.9049e+00
60	EMPTY	2.0117	2.0215	2.0151	3.0003e-03	0.0000e+00
61	EMPTY	2.0117	2.0215	2.0168	2.6025e-03	0.0000e+00
62	EMPTY	2.0117	2.0215	2.0176	2.4164e-03	0.0000e+00
63	EMPTY	2.0166	2.0264	2.0238	2.8317e-03	0.0000e+00
64	EMPTY	1.0303	1.0400	1.0351	1.2041e-03	0.0000e+00
65	EMPTY	1.0498	1.0596	1.0546	1.2041e-03	0.0000e+00
66	EMPTY	1.0645	1.0693	1.0687	1.7115e-03	0.0000e+00
67	EMPTY	1.0840	1.0889	1.0847	1.7115e-03	0.0000e+00
68	EMPTY	1.0938	1.0986	1.0972	2.2603e-03	0.0000e+00
69	EMPTY	1.1084	1.1133	1.1125	1.8082e-03	0.0000e+00
70	EMPTY	1.1230	1.1328	1.1244	2.4244e-03	0.0000e+00
71	EMPTY	1.1426	1.1475	1.1447	2.4484e-03	0.0000e+00
72	EMPTY	1.1523	1.1572	1.1569	1.1714e-03	0.0000e+00
73	EMPTY	1.1719	1.1768	1.1729	2.0432e-03	0.0000e+00
74	EMPTY	1.1865	1.1914	1.1866	6.9053e-04	0.0000e+00
75	EMPTY	1.2012	1.2109	1.2023	2.3261e-03	0.0000e+00
76	EMPTY	1.2109	1.2207	1.2157	1.2041e-03	0.0000e+00
77	EMPTY	1.2305	1.2354	1.2312	1.7115e-03	0.0000e+00
78	EMPTY	1.2500	1.2549	1.2505	1.4797e-03	0.0000e+00
79	EMPTY	1.2695	1.2744	1.2710	2.2603e-03	0.0000e+00
80	PAN020136	-9.2212	-8.8397	-9.0411	1.0312e-01	8.7029e-01
81	PAN050136	-18.3322	-17.5693	-17.9752	1.7332e-01	1.6806e+00
82	PAN070136	-11.9044	-11.3704	-11.5947	1.2934e-01	8.7048e-01
83	PAN080136	-6.5260	-6.0682	-6.3261	1.0212e-01	8.7014e-01
84	PAN090136	-6.1855	-5.8040	-5.9917	8.6110e-02	8.7013e-01
85	PAN100136	-6.8194	-6.4379	-6.6165	9.1980e-02	8.7016e-01
86	PAN105136	-3.2755	-3.0466	-3.1580	8.3305e-02	8.7004e-01
87	PAN110136	-3.0891	-2.8602	-3.0051	7.1054e-02	8.7003e-01
88	PAN115136	-3.1008	-2.7956	-2.9330	8.0092e-02	8.7003e-01
89	PAN120136	-3.2784	-3.0495	-3.1029	6.0192e-02	8.7003e-01
90	PAN125136	-3.1361	-2.8309	-2.9606	7.8972e-02	8.7003e-01
91	PAN130136	-2.7311	-2.5022	-2.5770	6.0664e-02	8.7002e-01
92	PAN120048	-7.2214	-6.8399	-6.9620	8.3005e-02	8.7017e-01
93	PAN130048	-5.6163	-5.2348	-5.4240	6.9345e-02	8.7011e-01
94	PAN120224	-6.4466	-6.0651	-6.2879	8.1328e-02	8.7014e-01
95	PAN130224	-6.7298	-6.4246	-6.5589	7.1570e-02	8.7015e-01
96	PAN120312	-6.1357	-5.7542	-5.8992	9.5329e-02	8.7012e-01
97	PAN130312	-5.5752	-5.1937	-5.3890	9.0088e-02	8.7010e-01
98	PAB000136	40.2975	40.6180	40.4586	6.8736e-02	5.8875e-01
99	PAB100136	42.3399	42.6145	42.4809	5.0519e-02	5.8964e-01
100	PAB125136	42.8716	43.1462	42.9686	5.1192e-02	5.8986e-01

Test: Aug01_04

sum1

Date: Wed Aug 1 12:36:47 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8917	40.6241	40.2433	1.5130e-01	7.5672e-01
102	PRV000001	19.6068	19.8509	19.6703	6.6358e-02	7.5161e-01
103	PSR000001	42.8025	43.0466	42.9197	4.9077e-02	7.5764e-01
104	PFM000001	9.6711	10.1288	9.8652	1.2078e-01	5.0061e-01
105	PAN000136	-76.9300	-70.9791	-74.4306	1.2276e+00	4.9235e+00
106	PFM000002	9.7836	10.0017	9.8739	5.5898e-02	2.0152e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-6.4893	-1.2549	-5.2139	1.0095e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0033	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	101.8818	102.4677	102.1201	1.4916e-01	1.0156e+00
113	VPW000002	118.8815	119.4674	119.1900	1.4812e-01	1.0805e+00
114	VPW000003	146.3417	146.9276	146.6854	1.2200e-01	1.1961e+00
115	VPW000004	104.5936	104.9842	104.7850	1.2780e-01	1.0254e+00
116	VPW000005	139.3517	139.9377	139.5626	1.6667e-01	1.1650e+00
117	VPW000006	146.9839	147.7652	147.3862	1.7384e-01	1.1992e+00
118	IPW000001	550.5984	560.3602	555.6746	1.9722e+00	9.2131e+00
119	IPW000002	1275.6047	1304.8738	1294.6882	6.2492e+00	1.3047e+01
120	IPW000003	1318.9874	1326.7874	1324.3300	1.8815e+00	1.3231e+01
121	IPW000004	383.0003	385.4417	384.0939	6.1257e-01	3.6342e+00
122	IPW000005	252.8199	254.7728	253.6597	4.6307e-01	2.8312e+00
123	IPW000006	262.8174	265.2588	263.8526	5.1863e-01	2.8887e+00
124	EMPTY	-0.0293	-0.0098	-0.0191	4.5034e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	3.0897e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	3.1133e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
128	IHT000001	128.6997	131.8247	130.2231	6.4718e-01	4.3018e+00
129	IHT000002	132.5796	135.1187	133.9859	5.7182e-01	4.3134e+00
130	IHT000003	132.5308	135.2652	134.1441	5.6194e-01	4.3139e+00
131	IHT000004	130.8519	133.5863	132.4379	5.9535e-01	4.3086e+00
132	IHT000005	129.2856	132.0200	130.8364	5.8315e-01	4.3037e+00
133	IHT000006	124.1587	126.6977	125.6938	5.9058e-01	4.2883e+00
134	IHT000007	130.9946	133.7290	132.6548	6.0650e-01	4.3093e+00
135	IHT000008	129.9204	132.2641	131.1899	5.5838e-01	4.3048e+00
136	IHT000009	130.6378	132.7862	131.7510	5.2830e-01	4.3065e+00
137	IHT000010	132.4745	134.6229	133.4901	4.4293e-01	4.3118e+00
138	IHT000011	130.7505	132.8989	131.8442	4.4817e-01	4.3068e+00
139	IHT000012	128.7410	130.8894	129.6629	5.0229e-01	4.3001e+00
140	IHT000013	91.5452	93.4983	92.5530	4.6078e-01	4.2032e+00
141	IHT000014	128.3203	130.2734	128.9648	4.3090e-01	4.2980e+00
142	IHT000015	95.6543	97.6074	96.3691	4.6956e-01	4.2117e+00
143	IHT000016	89.1226	90.8804	89.9468	4.4867e-01	4.1975e+00
144	IHT000017	104.9204	108.4360	106.9438	8.2086e-01	4.2372e+00
145	IHT000018	107.8350	109.3975	108.6045	4.1085e-01	4.2414e+00
146	IHT000019	102.9710	105.1194	104.2327	4.0474e-01	4.2304e+00
147	IHT000020	105.8030	108.1468	107.0140	4.2499e-01	4.2374e+00
148	IHT000021	-2.8057	-0.0714	-1.3253	5.3538e-01	4.1000e+00
149	IHT000022	92.5819	94.7303	93.6912	4.6928e-01	4.2057e+00
150	IHT000023	104.6575	106.8059	105.7746	4.7685e-01	4.2342e+00
151	IHT000024	70.0308	71.9839	71.1089	4.4159e-01	4.1612e+00
152	IHT000025	104.3044	106.2575	105.3591	4.3405e-01	4.2332e+00
153	IHT000026	105.1044	107.2528	106.2451	4.7410e-01	4.2354e+00
154	IHT000027	90.2006	91.9584	91.1967	4.7392e-01	4.2002e+00
155	IHT000028	91.5490	94.0881	92.6076	5.3828e-01	4.2033e+00

Test: Aug01_04 sum1 Date: Wed Aug 1 12:36:47 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	107.5345	105.7143	5.9378e-01	4.2341e+00
157	IHT000030	107.0162	109.7506	108.1959	5.5937e-01	4.2404e+00
158	IHT000031	105.7129	108.2520	106.8340	5.3205e-01	4.2369e+00
159	IHT000032	106.7383	109.2774	107.8867	5.0012e-01	4.2396e+00
160	IHT000033	106.7383	109.2773	107.8359	5.0669e-01	4.2394e+00
161	IHT000034	93.7124	96.2515	94.9155	4.0695e-01	4.2084e+00
162	IHT000035	123.8957	126.4348	125.0050	4.3304e-01	4.2863e+00
163	IHT000036	92.5856	94.9294	93.5427	4.2177e-01	4.2054e+00

Velocity 1 = 8.0497 (ft/sec) (+/- 3.0426 %)
 Velocity 2 = 8.0818 (ft/sec) (+/- 1.9023 %)
 Pressure drop = -2.6815 (psi)
 T_{sat} in = 267.7401 (deg F) T_{sat} out = 271.3380 (deg F)
 Phi inner = 101.4196 (kBtu/hr-ft²) (+/- 1.4106 %)
 Phi outer = 100.5934 (kBtu/hr-ft²) (+/- 1.5443 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.3761	78.8014	78.6398	1.6947e-01	1.9001e+00
1	TRF000002	78.8345	79.2574	78.9656	1.2738e-01	1.9001e+00
2	TFM000001	87.1596	87.8952	87.4689	1.7413e-01	1.9002e+00
3	TIN000001	86.6304	87.1572	86.8518	1.2990e-01	1.9002e+00
4	TRV000001	87.7312	88.5687	88.0766	1.7338e-01	1.9002e+00
5	TSR000001	131.0114	132.6245	131.9378	4.0633e-01	1.9026e+00
6	TAO020136	71.7130	74.2686	72.7675	6.2255e-01	1.9000e+00
7	TAO050136	148.9405	149.9386	149.4218	2.2128e-01	1.9042e+00
8	TAO070136	152.4028	153.8067	153.0830	3.6696e-01	1.9046e+00
9	TAO080136	165.1060	165.6993	165.4754	1.3205e-01	1.9061e+00
10	TAO090136	169.9816	170.7698	170.4173	1.8985e-01	1.9068e+00
11	TAO100136	165.8899	167.0756	166.4179	2.3495e-01	1.9063e+00
12	TAO105136	168.3965	169.3855	168.8695	2.2973e-01	1.9066e+00
13	TAO110136	172.7331	173.6140	173.1663	1.7795e-01	1.9072e+00
14	TAO115136	170.2071	171.1935	170.7219	1.8934e-01	1.9068e+00
15	TAO120136	181.1990	181.8844	181.5888	1.6243e-01	1.9084e+00
16	TAO125136	116.3846	117.6147	116.9691	3.3700e-01	1.9015e+00
17	TAO130136	174.1164	174.7964	174.4651	1.8330e-01	1.9073e+00
18	TAO120048	91.4456	92.4919	91.9708	2.9541e-01	1.9003e+00
19	TAO130048	180.3564	180.9428	180.6517	1.2729e-01	1.9082e+00
20	TAO120224	178.5285	179.4108	179.0169	2.2871e-01	1.9080e+00
21	TAO130224	169.1627	170.3371	169.7845	2.5056e-01	1.9067e+00
22	TAO120312	181.5762	182.7499	182.2868	2.3378e-01	1.9085e+00
23	TAO130312	178.5549	179.1433	178.7925	1.3572e-01	1.9080e+00
24	TRT020000	144.4221	145.4296	144.9321	2.4543e-01	1.9038e+00
25	TRT070000	165.8686	166.6649	166.3086	1.9995e-01	1.9062e+00
26	TRT100000	181.9121	182.6932	182.2346	1.8203e-01	1.9085e+00
27	TRT120000	184.4660	185.1494	184.8235	1.7028e-01	1.9089e+00
28	TRT125000	424.7732	450.8548	449.8266	4.3103e+00	1.9948e+00
29	TRT130000	182.8375	183.7158	183.3704	1.6046e-01	1.9086e+00
30	EMPTY	39.3761	40.0646	39.8627	1.9474e-01	1.9011e+00
31	TAF050136	110.3915	111.3178	110.8423	2.4396e-01	1.9011e+00
32	TAF070136	118.4347	119.6569	119.0265	2.8289e-01	1.9016e+00
33	TAF080136	164.4550	166.1246	165.2627	3.0382e-01	1.9061e+00
34	TAF090136	84.3537	85.6165	85.0127	2.6020e-01	1.9002e+00
35	TAF100136	132.8303	134.2511	133.4698	2.7604e-01	1.9027e+00
36	TAF105136	135.0451	136.1517	135.5628	2.4947e-01	1.9029e+00
37	TAF110136	137.3296	138.3369	137.8555	2.0795e-01	1.9031e+00
38	TAF115136	140.3718	141.3779	140.9855	2.0650e-01	1.9034e+00
39	TAF120136	160.3054	161.3941	160.8620	2.6347e-01	1.9056e+00
40	TAF125136	145.4183	146.5148	145.8715	2.8199e-01	1.9039e+00
41	TAF130136	147.9311	148.8312	148.4211	2.1121e-01	1.9041e+00
42	TAF120048	148.2950	149.5035	148.7044	2.6010e-01	1.9042e+00
43	TAF130048	153.0270	153.8258	153.4684	2.1629e-01	1.9047e+00
44	TAF120224	141.3434	142.8517	142.2630	3.3065e-01	1.9035e+00
45	TAF130224	145.5174	146.2236	145.9030	1.9396e-01	1.9039e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	2.2005e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5092	1.1446e-01	1.9011e+00
48	TAI130048	175.1192	176.1993	175.5692	2.5175e-01	1.9075e+00
49	TAI130136	174.6619	175.7393	175.0748	2.1530e-01	1.9074e+00
50	TAI130224	178.1545	179.3335	178.6756	2.8568e-01	1.9079e+00
51	TAI130312	170.0792	171.0661	170.5746	2.4217e-01	1.9068e+00
52	TRR130000	96.8997	98.6667	97.8294	3.9347e-01	1.9005e+00
53	TSI000001	70.7528	71.6037	71.1635	1.8613e-01	1.9000e+00
54	TSI000002	79.7469	86.0571	82.2121	1.6329e+00	1.9001e+00
55	TSO000001	70.9376	71.6858	71.2946	2.0099e-01	1.9000e+00
56	TSO000002	79.5735	80.4200	79.9737	1.9149e-01	1.9001e+00
57	TAF020136	94.1808	95.0216	94.6498	1.7014e-01	1.9004e+00
58	TAF120312	145.4352	147.1410	146.4008	3.9409e-01	1.9039e+00
59	TAF130312	155.2393	156.8308	156.0808	3.2287e-01	1.9050e+00
60	EMPTY	2.0215	2.0361	2.0296	3.6393e-03	0.0000e+00
61	EMPTY	2.0264	2.0361	2.0313	2.7902e-03	0.0000e+00
62	EMPTY	2.0264	2.0361	2.0324	2.8862e-03	0.0000e+00
63	EMPTY	2.0313	2.0410	2.0383	2.6396e-03	0.0000e+00
64	EMPTY	1.0352	1.0449	1.0412	2.3261e-03	0.0000e+00
65	EMPTY	1.0596	1.0645	1.0604	1.8950e-03	0.0000e+00
66	EMPTY	1.0742	1.0791	1.0744	9.6655e-04	0.0000e+00
67	EMPTY	1.0840	1.0938	1.0909	2.6267e-03	0.0000e+00
68	EMPTY	1.0986	1.1035	1.1028	1.7115e-03	0.0000e+00
69	EMPTY	1.1133	1.1182	1.1181	6.9053e-04	0.0000e+00
70	EMPTY	1.1279	1.1328	1.1309	2.4164e-03	0.0000e+00
71	EMPTY	1.1475	1.1572	1.1518	1.8821e-03	0.0000e+00
72	EMPTY	1.1621	1.1670	1.1623	9.6655e-04	0.0000e+00
73	EMPTY	1.1768	1.1816	1.1797	2.4164e-03	0.0000e+00
74	EMPTY	1.1914	1.1963	1.1921	1.7115e-03	0.0000e+00
75	EMPTY	1.2061	1.2109	1.2086	2.4642e-03	0.0000e+00
76	EMPTY	1.2207	1.2207	1.2207	0.0000e+00	0.0000e+00
77	EMPTY	1.2354	1.2402	1.2371	2.3675e-03	0.0000e+00
78	EMPTY	1.2549	1.2598	1.2559	1.9730e-03	0.0000e+00
79	EMPTY	1.2744	1.2793	1.2771	2.4484e-03	0.0000e+00
80	PAN020136	-8.8397	-8.3056	-8.5452	1.1116e-01	8.7026e-01
81	PAN050136	-18.3322	-17.4167	-17.9782	2.0318e-01	1.6806e+00
82	PAN070136	-11.8281	-11.2941	-11.5580	1.1137e-01	8.7048e-01
83	PAN080136	-6.5260	-6.1445	-6.3459	8.5487e-02	8.7014e-01
84	PAN090136	-6.1855	-5.8040	-5.9901	9.0088e-02	8.7013e-01
85	PAN100136	-6.7431	-6.4379	-6.5783	7.4498e-02	8.7016e-01
86	PAN105136	-3.2755	-2.9703	-3.1504	7.3535e-02	8.7004e-01
87	PAN110136	-3.1654	-2.8602	-3.0036	7.0026e-02	8.7003e-01
88	PAN115136	-3.1008	-2.7193	-2.9253	8.0462e-02	8.7003e-01
89	PAN120136	-3.2021	-2.9732	-3.1014	6.2497e-02	8.7003e-01
90	PAN125136	-3.0598	-2.8309	-2.9408	6.3851e-02	8.7003e-01
91	PAN130136	-2.8074	-2.5022	-2.6060	8.4086e-02	8.7002e-01
92	PAN120048	-7.1451	-6.7637	-6.9452	8.4099e-02	8.7017e-01
93	PAN130048	-5.5400	-5.2348	-5.4118	6.4370e-02	8.7011e-01
94	PAN120224	-6.3703	-6.0651	-6.2452	6.4957e-02	8.7014e-01
95	PAN130224	-6.7298	-6.4246	-6.5559	7.5574e-02	8.7015e-01
96	PAN120312	-6.0594	-5.7542	-5.8961	7.7084e-02	8.7012e-01
97	PAN130312	-5.5752	-5.1937	-5.3555	9.2019e-02	8.7010e-01
98	PAB000136	40.1144	40.3433	40.2499	4.8020e-02	5.8866e-01
99	PAB100136	42.1568	42.3857	42.2776	4.6019e-02	5.8955e-01
100	PAB125136	42.6885	42.8258	42.7425	4.2067e-02	5.8976e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7696	40.3800	40.1359	1.2815e-01	7.5668e-01
102	PRV0000001	19.7289	19.8509	19.7850	6.1457e-02	7.5163e-01
103	PSR0000001	42.6804	42.8025	42.7341	6.1209e-02	7.5757e-01
104	PFM0000001	9.6711	10.0373	9.8340	1.0510e-01	5.0060e-01
105	PAN000136	-78.3033	-71.4368	-74.2383	1.5298e+00	4.9235e+00
106	PFM0000002	9.7500	10.0856	9.9135	8.0424e-02	2.0153e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.6624e-03	0.0000e+00
108	EMPTY	-7.8955	-2.2266	-4.8406	9.7191e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0028	2.4344e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	101.6865	102.4677	102.0381	2.1970e-01	1.0153e+00
113	VPW0000002	119.0768	119.4674	119.2017	1.0259e-01	1.0806e+00
114	VPW0000003	146.3417	146.9276	146.6308	1.1995e-01	1.1959e+00
115	VPW0000004	104.2030	104.9842	104.6952	1.5902e-01	1.0250e+00
116	VPW0000005	139.1564	139.9377	139.5392	1.5262e-01	1.1649e+00
117	VPW0000006	147.1792	147.7652	147.3433	1.6441e-01	1.1990e+00
118	IPW0000001	531.0750	542.7891	538.0645	2.8468e+00	9.1476e+00
119	IPW0000002	1304.8738	1322.4352	1311.9766	4.9827e+00	1.3154e+01
120	IPW0000003	1334.5874	1344.3374	1340.0475	1.7618e+00	1.3330e+01
121	IPW0000004	376.1643	380.5589	377.8244	1.1755e+00	3.5929e+00
122	IPW0000005	252.8199	254.2846	253.5523	3.3084e-01	2.8306e+00
123	IPW0000006	263.3057	266.2354	264.8291	8.4653e-01	2.8943e+00
124	EMPTY	-0.0293	-0.0098	-0.0190	3.5908e-03	0.0000e+00
125	EMPTY	-0.0195	0.0000	-0.0128	4.0542e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0151	4.0971e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0160	3.4229e-03	0.0000e+00
128	IHT0000001	128.8950	131.6294	130.1450	5.3525e-01	4.3016e+00
129	IHT0000002	132.7749	135.1187	133.8726	4.5658e-01	4.3130e+00
130	IHT0000003	132.7261	135.2652	134.0112	4.4484e-01	4.3135e+00
131	IHT0000004	130.8519	133.3909	132.3011	4.6870e-01	4.3082e+00
132	IHT0000005	129.2856	131.8247	130.7544	4.7226e-01	4.3034e+00
133	IHT0000006	124.1587	126.6977	125.6157	4.8682e-01	4.2881e+00
134	IHT0000007	131.1899	133.7290	132.5727	4.9887e-01	4.3090e+00
135	IHT0000008	130.1157	132.0688	131.1118	4.6730e-01	4.3045e+00
136	IHT0000009	130.6378	132.7862	131.6377	5.1696e-01	4.3061e+00
137	IHT0000010	132.2791	134.6229	133.3885	5.6969e-01	4.3115e+00
138	IHT0000011	130.9458	133.4848	131.8716	6.2367e-01	4.3069e+00
139	IHT0000012	128.5457	131.0847	129.6786	6.2390e-01	4.3002e+00
140	IHT0000013	91.3499	94.0843	92.4710	6.2242e-01	4.2030e+00
141	IHT0000014	127.7344	130.0781	128.9023	5.4888e-01	4.2979e+00
142	IHT0000015	95.2636	97.4121	96.3027	5.1364e-01	4.2116e+00
143	IHT0000016	88.9273	91.0757	89.8570	5.4898e-01	4.1973e+00
144	IHT0000017	105.1157	108.6313	106.7993	8.8400e-01	4.2368e+00
145	IHT0000018	107.2491	110.5694	108.5850	5.9629e-01	4.2414e+00
146	IHT0000019	103.3616	105.7054	104.3069	4.6915e-01	4.2306e+00
147	IHT0000020	106.1936	108.1468	107.0491	4.5829e-01	4.2374e+00
148	IHT0000021	-2.4151	0.1240	-1.2784	6.0062e-01	4.1000e+00
149	IHT0000022	92.5819	94.7303	93.6444	4.6381e-01	4.2056e+00
150	IHT0000023	104.6575	107.0012	105.8762	4.4914e-01	4.2345e+00
151	IHT0000024	70.2261	72.1793	71.2027	4.4293e-01	4.1614e+00
152	IHT0000025	104.3044	106.6481	105.4802	4.6936e-01	4.2335e+00
153	IHT0000026	105.2997	107.4482	106.3271	4.8618e-01	4.2356e+00
154	IHT0000027	90.2006	92.7396	91.1655	5.2558e-01	4.2001e+00
155	IHT0000028	91.3537	93.6974	92.5373	5.7101e-01	4.2031e+00

Test: Aug01_04

sum2

Date: Wed Aug 1 12:36:47 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.7533	105.7456	5.9236e-01	4.2342e+00
157	IHT000030	107.0162	109.3600	108.2155	5.6498e-01	4.2404e+00
158	IHT000031	105.7129	107.8613	106.8340	5.6471e-01	4.2369e+00
159	IHT000032	106.7383	109.0820	107.8789	5.4869e-01	4.2396e+00
160	IHT000033	106.5430	108.8867	107.8359	5.6344e-01	4.2394e+00
161	IHT000034	93.7124	95.4702	94.7866	4.1432e-01	4.2081e+00
162	IHT000035	123.7004	125.6535	124.8839	4.2756e-01	4.2860e+00
163	IHT000036	92.5856	94.1481	93.4216	3.8468e-01	4.2051e+00

Test: Aug01_04 dif Date: Wed Aug 1 12:36:47 1990 Page: 1

Velocity 1 = 0.012000 (ft/sec)

Velocity 2 = 0.016500 (ft/sec)

Pressure Drop = 0.006900 (psi)

Tsat in = 0.308594 (deg F) Tsat out = 0.317474 (deg F)

Phi inner = 1.018303 (kBtu/hr-ft2) Phi outer = 0.168098 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1064	0.1355
1	TRF000002	0.1396	0.1771
2	TFM000001	0.8103	0.9351
3	TIN000001	0.8085	0.9396
4	TRV000001	0.9418	1.0808
5	TSR000001	2.0980	1.6158
6	TAO020136	1.0314	1.4378
7	TAO050136	0.7214	0.4851
8	TAO070136	0.6939	0.4553
9	TAO080136	0.0974	0.0588
10	TAO090136	0.7167	0.4223
11	TAO100136	0.7427	0.4483
12	TAO105136	0.6644	0.3950
13	TAO110136	0.6564	0.3805
14	TAO115136	0.7300	0.4294
15	TAO120136	0.7631	0.4220
16	TAO125136	0.3190	0.2720
17	TAO130136	0.6181	0.3555
18	TAO120048	4.1603	4.7378
19	TAO130048	0.6401	0.3556
20	TAO120224	0.7210	0.4044
21	TAO130224	0.5758	0.3403
22	TAO120312	0.7244	0.3990
23	TAO130312	0.6650	0.3733
24	TRT020000	0.6244	0.4327
25	TRT070000	0.3896	0.2348
26	TRT100000	0.6945	0.3826
27	TRT120000	0.7643	0.4152
28	TRT125000	9.8323	2.2346
29	TRT130000	0.7954	0.4357
30	EMPTY	0.0046	0.0115
31	TAF050136	0.7895	0.7174
32	TAF070136	0.8894	0.7529
33	TAF080136	0.3663	0.2221
34	TAF090136	3.7561	4.6225
35	TAF100136	0.8934	0.6739
36	TAF105136	0.7074	0.5246
37	TAF110136	0.8576	0.6260
38	TAF115136	0.8124	0.5796
39	TAF120136	0.7238	0.4520
40	TAF125136	0.7816	0.5387
41	TAF130136	0.7281	0.4930
42	TAF120048	0.7575	0.5120
43	TAF130048	0.7858	0.5147
44	TAF120224	0.7965	0.5630
45	TAF130224	0.8109	0.5589

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1086
47	EMPTY	0.0184	0.0465
48	TAI130048	0.7547	0.4317
49	TAI130136	0.7490	0.4297
50	TAI130224	0.8449	0.4751
51	TAI130312	0.7659	0.4510
52	TRR130000	2.4323	2.5497
53	TSI000001	0.1396	0.1958
54	TSI000002	3.8956	4.9742
55	TSO000001	0.0346	0.0485
56	TSO000002	0.0214	0.0268
57	TAF020136	0.9040	0.9643
58	TAF120312	0.8112	0.5572
59	TAF130312	0.7522	0.4843
60	EMPTY	0.0145	0.7196
61	EMPTY	0.0145	0.7190
62	EMPTY	0.0148	0.7335
63	EMPTY	0.0145	0.7165
64	EMPTY	0.0061	0.5893
65	EMPTY	0.0058	0.5500
66	EMPTY	0.0057	0.5334
67	EMPTY	0.0062	0.5716
68	EMPTY	0.0056	0.5104
69	EMPTY	0.0056	0.5034
70	EMPTY	0.0065	0.5781
71	EMPTY	0.0071	0.6202
72	EMPTY	0.0054	0.4668
73	EMPTY	0.0068	0.5798
74	EMPTY	0.0055	0.4635
75	EMPTY	0.0063	0.5240
76	EMPTY	0.0050	0.4113
77	EMPTY	0.0059	0.4792
78	EMPTY	0.0054	0.4318
79	EMPTY	0.0061	0.4799
80	PAN020136	0.4959	5.4849
81	PAN050136	0.0030	0.0167
82	PAN070136	0.0367	0.3165
83	PAN080136	0.0198	0.3130
84	PAN090136	0.0016	0.0267
85	PAN100136	0.0382	0.5773
86	PAN105136	0.0076	0.2407
87	PAN110136	0.0015	0.0499
88	PAN115136	0.0077	0.2625
89	PAN120136	0.0015	0.0483
90	PAN125136	0.0198	0.6688
91	PAN130136	0.0290	1.1253
92	PAN120048	0.0168	0.2413
93	PAN130048	0.0122	0.2249
94	PAN120224	0.0427	0.6791
95	PAN130224	0.0030	0.0457
96	PAN120312	0.0031	0.0525
97	PAN130312	0.0335	0.6216
98	PAB000136	0.2087	0.5158
99	PAB100136	0.2033	0.4786
100	PAB125136	0.2261	0.5262

Test: Aug01_04

dif

Date: Wed Aug 1 12:36:47 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1074	0.2669
102	PRV000001	0.1147	0.5831
103	PSR000001	0.1856	0.4324
104	PFM000001	0.0312	0.3163
105	PAN000136	0.1923	0.2584
106	PFM000002	0.0396	0.4011
107	EMPTY	0.0004	8.1633
108	EMPTY	0.3733	7.1597
109	EMPTY	0.0005	15.1515
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0820	0.0803
113	VPW000002	0.0117	0.0098
114	VPW000003	0.0546	0.0372
115	VPW000004	0.0898	0.0857
116	VPW000005	0.0234	0.0168
117	VPW000006	0.0429	0.0291
118	IPW000001	17.6101	3.1691
119	IPW000002	17.2883	1.3353
120	IPW000003	15.7175	1.1868
121	IPW000004	6.2695	1.6323
122	IPW000005	0.1074	0.0423
123	IPW000006	0.9765	0.3701
124	EMPTY	0.0001	0.5236
125	EMPTY	0.0006	4.4776
126	EMPTY	0.0003	2.0270
127	EMPTY	0.0002	1.2346
128	IHT000001	0.0781	0.0600
129	IHT000002	0.1133	0.0846
130	IHT000003	0.1329	0.0991
131	IHT000004	0.1368	0.1033
132	IHT000005	0.0820	0.0627
133	IHT000006	0.0781	0.0621
134	IHT000007	0.0821	0.0619
135	IHT000008	0.0781	0.0595
136	IHT000009	0.1133	0.0860
137	IHT000010	0.1016	0.0761
138	IHT000011	0.0274	0.0208
139	IHT000012	0.0157	0.0121
140	IHT000013	0.0820	0.0886
141	IHT000014	0.0625	0.0485
142	IHT000015	0.0664	0.0689
143	IHT000016	0.0898	0.0998
144	IHT000017	0.1445	0.1351
145	IHT000018	0.0195	0.0180
146	IHT000019	0.0742	0.0712
147	IHT000020	0.0351	0.0328
148	IHT000021	0.0469	3.5388
149	IHT000022	0.0468	0.0499
150	IHT000023	0.1016	0.0961
151	IHT000024	0.0938	0.1319
152	IHT000025	0.1211	0.1149
153	IHT000026	0.0820	0.0772
154	IHT000027	0.0312	0.0342
155	IHT000028	0.0703	0.0759

Test: Aug01_04 dif Date: Wed Aug 1 12:36:47 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0313	0.0296
157	IHT000030	0.0196	0.0181
158	IHT000031	0.0000	0.0000
159	IHT000032	0.0078	0.0072
160	IHT000033	0.0000	0.0000
161	IHT000034	0.1289	0.1358
162	IHT000035	0.1211	0.0969
163	IHT000036	0.1211	0.1295

Test: Aug01_05

sum1

Date: Wed Aug 1 12:52:44 1990

Page: 1

Velocity 1 = 6.1130 (ft/sec) (+/- 4.7448 %)
Velocity 2 = 6.1143 (ft/sec) (+/- 2.3126 %)
Pressure drop = -3.7721 (psi)
Tsat in = 267.9892 (deg F) Tsat out = 273.0422 (deg F)
Phi inner = 101.2252 (kBtu/hr-ft2) (+/- 1.4112 %)
Phi outer = 100.4258 (kBtu/hr-ft2) (+/- 1.5449 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.3761	79.0140	78.7120	1.8271e-01	1.9001e+00
1	TRF000002	79.0460	79.4688	79.3589	1.2260e-01	1.9001e+00
2	TFM000001	87.0557	87.6858	87.3268	1.7124e-01	1.9002e+00
3	TIN000001	86.7357	87.3678	87.0913	1.5902e-01	1.9002e+00
4	TRV000001	87.6265	88.4661	88.0192	2.1573e-01	1.9002e+00
5	TSR000001	139.0676	142.0765	140.8194	8.1894e-01	1.9034e+00
6	TAO020136	72.2450	74.3748	73.2656	5.1675e-01	1.9000e+00
7	TAO050136	165.9491	167.0324	166.2753	2.4942e-01	1.9062e+00
8	TAO070136	170.4433	171.6308	171.1184	2.8036e-01	1.9069e+00
9	TAO080136	186.6705	187.4466	187.0877	1.8750e-01	1.9092e+00
10	TAO090136	191.9437	192.8174	192.4154	1.9103e-01	1.9101e+00
11	TAO100136	189.1875	190.1604	189.8041	2.4257e-01	1.9096e+00
12	TAO105136	191.8286	192.8985	192.3211	2.5569e-01	1.9101e+00
13	TAO110136	197.3788	198.2446	197.8150	1.9050e-01	1.9110e+00
14	TAO115136	194.2662	195.2361	194.7066	2.5425e-01	1.9104e+00
15	TAO120136	207.0775	207.8475	207.4875	1.8816e-01	1.9127e+00
16	TAO125136	128.9245	130.0408	129.4219	2.5724e-01	1.9024e+00
17	TAO130136	199.0944	200.1434	199.5975	2.1584e-01	1.9113e+00
18	TAO120048	94.0580	95.3114	94.6783	3.2906e-01	1.9004e+00
19	TAO130048	207.6741	208.2510	207.9224	1.6122e-01	1.9128e+00
20	TAO120224	204.1504	205.1140	204.5611	2.5931e-01	1.9122e+00
21	TAO130224	193.6706	194.6336	194.1122	2.2631e-01	1.9103e+00
22	TAO120312	208.8256	209.6908	209.1624	2.0107e-01	1.9130e+00
23	TAO130312	204.5067	205.2764	204.8857	1.6878e-01	1.9122e+00
24	TRT020000	159.1509	160.0477	159.7105	2.3115e-01	1.9054e+00
25	TRT070000	186.5225	187.6006	187.1010	2.5607e-01	1.9092e+00
26	TRT100000	207.4152	208.2787	207.7241	1.7150e-01	1.9127e+00
27	TRT120000	212.2626	213.3154	212.7168	2.5195e-01	1.9137e+00
28	TRT125000	450.6830	451.0261	450.8596	1.0011e-01	1.9953e+00
29	TRT130000	209.6707	210.4378	210.0675	1.5140e-01	1.9132e+00
30	EMPTY	39.6057	40.2940	39.9545	1.9799e-01	1.9011e+00
31	TAF050136	117.8674	118.9910	118.4509	2.8865e-01	1.9016e+00
32	TAF070136	129.1905	130.3044	129.6905	2.9001e-01	1.9024e+00
33	TAF080136	185.4095	186.9586	186.1489	3.0303e-01	1.9091e+00
34	TAF090136	85.9309	86.8772	86.2989	2.2984e-01	1.9002e+00
35	TAF100136	148.0720	149.2768	148.4478	2.6108e-01	1.9041e+00
36	TAF105136	150.9040	152.3938	151.3829	3.1506e-01	1.9045e+00
37	TAF110136	154.0212	155.1157	154.4142	2.1030e-01	1.9048e+00
38	TAF115136	157.8431	159.0356	158.3582	2.4791e-01	1.9053e+00
39	TAF120136	182.4516	184.0078	183.4038	3.0451e-01	1.9086e+00
40	TAF125136	164.2996	166.2665	165.0814	3.6024e-01	1.9061e+00
41	TAF130136	167.8750	169.4517	168.4445	3.3796e-01	1.9065e+00
42	TAF120048	168.4053	169.7945	169.0068	3.2285e-01	1.9066e+00
43	TAF130048	174.7831	175.6668	175.2683	1.6774e-01	1.9075e+00
44	TAF120224	159.5199	161.0080	160.3118	3.2412e-01	1.9055e+00
45	TAF130224	164.6529	165.6474	165.1719	2.2026e-01	1.9061e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1400	2.0715e-01	1.9010e+00
47	EMPTY	39.6057	39.8352	39.6883	1.1129e-01	1.9011e+00
48	TAI130048	202.5561	204.0017	203.1905	3.0349e-01	1.9119e+00
49	TAI130136	200.6759	201.7346	201.1167	2.0690e-01	1.9115e+00
50	TAI130224	204.7283	205.7888	205.2316	2.4357e-01	1.9123e+00
51	TAI130312	195.4129	196.3827	195.8804	2.5589e-01	1.9106e+00
52	TRR130000	100.1189	101.3617	100.8248	2.8446e-01	1.9006e+00
53	TSI000001	70.7539	71.4989	71.2280	1.6688e-01	1.9000e+00
54	TSI000002	79.7474	86.3720	82.2466	1.5483e+00	1.9001e+00
55	TSO000001	70.7225	71.6847	71.2165	2.1803e-01	1.9000e+00
56	TSO000002	81.4751	82.3208	81.8706	2.1104e-01	1.9001e+00
57	TAF020136	97.0160	98.1697	97.6898	2.5695e-01	1.9005e+00
58	TAF120312	165.4679	166.7536	166.0835	2.9389e-01	1.9062e+00
59	TAF130312	177.8317	179.8864	178.8791	3.8896e-01	1.9080e+00
60	EMPTY	2.5781	2.5928	2.5834	4.2818e-03	0.0000e+00
61	EMPTY	2.5781	2.5879	2.5812	2.9413e-03	0.0000e+00
62	EMPTY	2.5732	2.5830	2.5782	3.0389e-03	0.0000e+00
63	EMPTY	2.5732	2.5879	2.5815	2.8334e-03	0.0000e+00
64	EMPTY	1.2793	1.2842	1.2824	2.3675e-03	0.0000e+00
65	EMPTY	1.2939	1.3037	1.2989	1.5566e-03	0.0000e+00
66	EMPTY	1.3037	1.3184	1.3120	2.6562e-03	0.0000e+00
67	EMPTY	1.3232	1.3330	1.3262	2.6100e-03	0.0000e+00
68	EMPTY	1.3330	1.3379	1.3359	2.4164e-03	0.0000e+00
69	EMPTY	1.3428	1.3574	1.3505	2.8058e-03	0.0000e+00
70	EMPTY	1.3574	1.3623	1.3621	9.6655e-04	0.0000e+00
71	EMPTY	1.3770	1.3818	1.3804	2.2603e-03	0.0000e+00
72	EMPTY	1.3770	1.3916	1.3910	1.6028e-03	0.0000e+00
73	EMPTY	1.4014	1.4111	1.4062	1.2041e-03	0.0000e+00
74	EMPTY	1.4160	1.4209	1.4184	2.4642e-03	0.0000e+00
75	EMPTY	1.4307	1.4355	1.4319	2.1635e-03	0.0000e+00
76	EMPTY	1.4404	1.4453	1.4422	2.3675e-03	0.0000e+00
77	EMPTY	1.4551	1.4648	1.4598	1.3811e-03	0.0000e+00
78	EMPTY	1.4746	1.4795	1.4780	2.2603e-03	0.0000e+00
79	EMPTY	1.4941	1.4990	1.4978	2.1635e-03	0.0000e+00
80	PAN020136	-15.2484	-11.6626	-12.2210	7.6332e-01	8.7054e-01
81	PAN050136	-25.5038	-24.8935	-25.1621	1.5585e-01	1.6812e+00
82	PAN070136	-16.8635	-16.4058	-16.6301	8.3590e-02	8.7099e-01
83	PAN080136	-8.7385	-8.5096	-8.6286	7.7315e-02	8.7027e-01
84	PAN090136	-8.4743	-8.1691	-8.3018	6.3196e-02	8.7025e-01
85	PAN100136	-8.8793	-8.5742	-8.7222	7.2967e-02	8.7027e-01
86	PAN105136	-4.4199	-4.1147	-4.2521	7.8595e-02	8.7006e-01
87	PAN110136	-4.3098	-4.0046	-4.1328	7.6200e-02	8.7006e-01
88	PAN115136	-4.2452	-3.9400	-4.1399	8.2848e-02	8.7006e-01
89	PAN120136	-4.4991	-4.1176	-4.4091	8.3987e-02	8.7007e-01
90	PAN125136	-4.9672	-4.6620	-4.8542	8.8866e-02	8.7008e-01
91	PAN130136	-3.4178	-3.1126	-3.2591	6.6903e-02	8.7004e-01
92	PAN120048	-9.5102	-9.2051	-9.3683	9.5029e-02	8.7032e-01
93	PAN130048	-8.4391	-8.1340	-8.2957	6.4738e-02	8.7025e-01
94	PAN120224	-9.1169	-8.8880	-8.9826	6.6404e-02	8.7029e-01
95	PAN130224	-8.7897	-8.4846	-8.6204	6.4092e-02	8.7027e-01
96	PAN120312	-8.8823	-8.5771	-8.7205	8.8061e-02	8.7027e-01
97	PAN130312	-8.0929	-7.7877	-7.9296	6.1674e-02	8.7023e-01
98	PAB000136	40.1602	40.5264	40.4184	6.7809e-02	5.8874e-01
99	PAB100136	43.2096	43.3470	43.2737	4.6241e-02	5.9000e-01
100	PAB125136	43.8787	44.0618	43.9684	4.5269e-02	5.9032e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0138	40.3800	40.2970	9.0412e-02	7.5674e-01
102	PRV0000001	19.6068	19.7289	19.6703	6.1605e-02	7.5161e-01
103	PSR0000001	43.9011	44.2673	44.0745	7.0146e-02	7.5805e-01
104	PFM0000001	5.4597	5.8259	5.6299	9.7891e-02	5.0020e-01
105	PAN000136	-109.8890	-102.5648	-104.4324	1.3461e+00	4.9269e+00
106	PFM0000002	5.5215	5.7397	5.6323	5.1968e-02	2.0050e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0027	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	101.8818	102.4677	102.2021	1.7540e-01	1.0159e+00
113	VPW0000002	119.0768	119.4674	119.3306	1.1334e-01	1.0811e+00
114	VPW0000003	146.5370	147.1229	146.8183	1.3182e-01	1.1967e+00
115	VPW0000004	104.5936	104.9842	104.8748	1.3182e-01	1.0257e+00
116	VPW0000005	139.5470	139.9377	139.6642	1.2478e-01	1.1655e+00
117	VPW0000006	147.1792	147.7652	147.4527	1.4227e-01	1.1995e+00
118	IPW0000001	538.8844	544.7414	541.7737	1.5895e+00	9.1613e+00
119	IPW0000002	1297.0697	1304.8738	1300.5813	1.8490e+00	1.3083e+01
120	IPW0000003	1330.6874	1338.4874	1335.4064	1.3698e+00	1.3301e+01
121	IPW0000004	379.0940	380.5589	379.7580	3.0819e-01	3.6056e+00
122	IPW0000005	252.3317	253.7964	253.1520	3.8758e-01	2.8284e+00
123	IPW0000006	263.3057	265.7471	264.4873	4.7402e-01	2.8924e+00
124	EMPTY	-0.0244	-0.0098	-0.0170	3.7226e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0111	3.1257e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0133	3.5623e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.1133e-03	0.0000e+00
128	IHT0000001	129.2856	131.2387	130.1528	4.8030e-01	4.3016e+00
129	IHT0000002	132.9702	135.1187	133.8921	4.9918e-01	4.3131e+00
130	IHT0000003	133.1167	135.2652	134.0464	5.0618e-01	4.3136e+00
131	IHT0000004	131.4378	133.5863	132.3129	4.9480e-01	4.3082e+00
132	IHT0000005	129.8716	132.0200	130.7778	4.9718e-01	4.3035e+00
133	IHT0000006	124.7446	127.0883	125.5962	4.9718e-01	4.2881e+00
134	IHT0000007	131.7759	134.1196	132.5727	5.3356e-01	4.3090e+00
135	IHT0000008	130.3110	132.4594	131.1548	5.2414e-01	4.3047e+00
136	IHT0000009	130.6378	132.7862	131.7002	5.4413e-01	4.3063e+00
137	IHT0000010	132.2791	135.0135	133.4315	5.4140e-01	4.3117e+00
138	IHT0000011	130.7505	133.0942	131.8169	4.8682e-01	4.3067e+00
139	IHT0000012	128.7410	130.8894	129.6278	4.5371e-01	4.3000e+00
140	IHT0000013	91.5452	93.8890	92.5022	4.5206e-01	4.2031e+00
141	IHT0000014	128.1250	130.2734	128.9258	5.1637e-01	4.2979e+00
142	IHT0000015	95.2636	97.6074	96.3301	5.0256e-01	4.2116e+00
143	IHT0000016	88.9273	91.0757	89.9195	4.6159e-01	4.1974e+00
144	IHT0000017	106.2876	109.0219	107.4907	5.9889e-01	4.2386e+00
145	IHT0000018	107.2491	109.9835	108.6670	5.3788e-01	4.2416e+00
146	IHT0000019	103.5569	105.5101	104.3421	4.9204e-01	4.2307e+00
147	IHT0000020	106.1936	108.3421	107.0335	5.0262e-01	4.2374e+00
148	IHT0000021	-2.4151	0.1240	-1.2276	6.2868e-01	4.1000e+00
149	IHT0000022	92.7772	95.1209	93.6561	5.5278e-01	4.2056e+00
150	IHT0000023	104.6575	107.0012	105.7707	5.1183e-01	4.2342e+00
151	IHT0000024	70.0308	72.3746	71.0816	5.1128e-01	4.1612e+00
152	IHT0000025	104.1091	106.6481	105.3786	5.2977e-01	4.2333e+00
153	IHT0000026	105.1044	107.4482	106.2529	5.2443e-01	4.2354e+00
154	IHT0000027	90.0053	92.3490	91.1889	5.1812e-01	4.2002e+00
155	IHT0000028	90.9631	93.8927	92.5763	5.8101e-01	4.2032e+00

Test: Aug01_05

sum1

Date: Wed Aug 1 12:52:44 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.9486	105.7026	5.5086e-01	4.2341e+00
157	IHT000030	107.2116	109.7506	108.1686	5.3416e-01	4.2403e+00
158	IHT000031	105.5176	108.2520	106.7285	5.6359e-01	4.2366e+00
159	IHT000032	106.9336	109.2774	107.8008	5.6794e-01	4.2394e+00
160	IHT000033	106.7383	109.2773	107.7344	5.5838e-01	4.2392e+00
161	IHT000034	93.9077	96.0562	94.7437	4.6862e-01	4.2080e+00
162	IHT000035	123.8957	126.0442	124.7863	4.7868e-01	4.2857e+00
163	IHT000036	92.5856	94.5388	93.3786	4.2206e-01	4.2050e+00

Velocity 1 = 6.0433 (ft/sec) (+/- 4.8432 %)
Velocity 2 = 6.0715 (ft/sec) (+/- 2.3286 %)
Pressure drop = -3.7070 (psi)
Tsat in = 267.6382 (deg F) Tsat out = 272.7106 (deg F)
Phi inner = 100.8745 (kBtu/hr-ft2) (+/- 1.4121 %)
Phi outer = 100.9912 (kBtu/hr-ft2) (+/- 1.5423 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	78.5887	79.2265	78.8524	1.6944e-01	1.9001e+00
1	TRF000002	79.2574	79.6802	79.4857	1.2697e-01	1.9001e+00
2	TFM000001	87.3710	88.2106	87.7656	1.9613e-01	1.9002e+00
3	TIN000001	87.2617	87.7881	87.4851	1.3555e-01	1.9002e+00
4	TRV000001	88.1516	88.9888	88.6032	1.9548e-01	1.9002e+00
5	TSR000001	140.7742	143.4795	142.3856	6.4117e-01	1.9035e+00
6	TAO020136	72.8848	74.6941	73.7915	4.0582e-01	1.9000e+00
7	TAO050136	166.5408	167.6232	167.0288	2.0851e-01	1.9063e+00
8	TAO070136	171.7297	173.2130	172.2757	3.2719e-01	1.9070e+00
9	TAO080136	187.6384	188.2224	187.8959	1.4385e-01	1.9093e+00
10	TAO090136	192.9134	193.6886	193.2698	1.8308e-01	1.9102e+00
11	TAO100136	189.9649	191.0335	190.5285	2.2892e-01	1.9098e+00
12	TAO105136	192.5096	193.7724	193.2794	2.6477e-01	1.9102e+00
13	TAO110136	198.2418	198.9157	198.6380	1.7680e-01	1.9111e+00
14	TAO115136	194.8483	195.7211	195.3797	2.2261e-01	1.9106e+00
15	TAO120136	207.8464	208.6155	208.1543	1.9899e-01	1.9128e+00
16	TAO125136	130.2435	131.6625	131.0420	3.5681e-01	1.9025e+00
17	TAO130136	199.6656	200.9044	200.2029	2.6633e-01	1.9114e+00
18	TAO120048	97.0822	98.1238	97.5946	2.7973e-01	1.9005e+00
19	TAO130048	208.1531	208.9209	208.5676	1.5194e-01	1.9129e+00
20	TAO120224	204.7287	205.7874	205.2942	2.2395e-01	1.9123e+00
21	TAO130224	193.9607	194.8284	194.4036	2.1988e-01	1.9104e+00
22	TAO120312	209.4023	210.3633	209.8215	2.3756e-01	1.9131e+00
23	TAO130312	204.6997	205.6601	205.2298	1.7936e-01	1.9123e+00
24	TRT020000	160.7438	161.6396	161.1979	2.5835e-01	1.9056e+00
25	TRT070000	187.0131	188.0909	187.6202	2.3006e-01	1.9093e+00
26	TRT100000	207.8947	208.7575	208.3547	2.1989e-01	1.9129e+00
27	TRT120000	212.9332	213.6984	213.4188	1.6936e-01	1.9138e+00
28	TRT125000	107.5729	451.1120	353.9707	1.0045e+02	1.9536e+00
29	TRT130000	210.1492	210.9160	210.4793	1.6679e-01	1.9132e+00
30	EMPTY	39.3761	40.2940	39.9132	2.0531e-01	1.9011e+00
31	TAF050136	118.2771	119.8096	119.1762	3.1364e-01	1.9016e+00
32	TAF070136	129.8982	131.5155	130.4933	3.2577e-01	1.9025e+00
33	TAF080136	186.4767	187.5409	186.9912	2.6273e-01	1.9092e+00
34	TAF090136	86.8759	88.0312	87.4223	2.6066e-01	1.9002e+00
35	TAF100136	148.6743	149.9789	149.2725	2.9013e-01	1.9042e+00
36	TAF105136	151.5986	152.6900	152.1234	2.5836e-01	1.9045e+00
37	TAF110136	154.8169	155.7124	155.3064	2.0670e-01	1.9049e+00
38	TAF115136	158.6375	159.9275	159.2372	2.5581e-01	1.9054e+00
39	TAF120136	183.4250	184.8831	184.0828	3.2891e-01	1.9087e+00
40	TAF125136	164.9902	166.4626	165.8302	3.8961e-01	1.9062e+00
41	TAF130136	168.3672	170.0419	169.2740	3.1830e-01	1.9066e+00
42	TAF120048	169.1005	170.1913	169.6873	2.4856e-01	1.9067e+00
43	TAF130048	175.4699	176.8443	176.0630	3.3052e-01	1.9076e+00
44	TAF120224	160.6116	161.6038	161.0201	2.6396e-01	1.9056e+00
45	TAF130224	165.3492	166.3427	165.8974	2.0791e-01	1.9062e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.1407e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.6286	8.3599e-02	1.9011e+00
48	TAI130048	203.2307	204.6760	203.9709	3.2640e-01	1.9121e+00
49	TAI130136	201.4458	202.6972	202.1461	2.2340e-01	1.9117e+00
50	TAI130224	205.4037	206.5598	205.9893	2.5666e-01	1.9124e+00
51	TAI130312	196.0923	197.1579	196.6965	2.2363e-01	1.9108e+00
52	TRR130000	99.4970	100.6377	100.0776	2.7160e-01	1.9006e+00
53	TSI000001	70.7539	71.3930	71.0185	1.5837e-01	1.9000e+00
54	TSI000002	79.5365	83.6424	81.2520	1.0540e+00	1.9001e+00
55	TSO000001	70.7219	71.4708	71.0171	1.8649e-01	1.9000e+00
56	TSO000002	81.3705	82.2152	81.7801	1.8801e-01	1.9001e+00
57	TAF020136	97.8544	98.7987	98.3248	2.2525e-01	1.9005e+00
58	TAF120312	165.8636	167.6439	166.8332	4.1137e-01	1.9063e+00
59	TAF130312	178.6152	180.2780	179.4838	3.8901e-01	1.9081e+00
60	EMPTY	2.5879	2.6025	2.5974	3.4751e-03	0.0000e+00
61	EMPTY	2.5928	2.6025	2.5965	2.5266e-03	0.0000e+00
62	EMPTY	2.5879	2.5977	2.5936	2.0598e-03	0.0000e+00
63	EMPTY	2.5928	2.6025	2.5975	2.4083e-03	0.0000e+00
64	EMPTY	1.2842	1.2891	1.2880	2.0432e-03	0.0000e+00
65	EMPTY	1.3037	1.3086	1.3053	2.3008e-03	0.0000e+00
66	EMPTY	1.3135	1.3232	1.3183	1.2041e-03	0.0000e+00
67	EMPTY	1.3281	1.3330	1.3328	9.6655e-04	0.0000e+00
68	EMPTY	1.3379	1.3428	1.3426	9.6655e-04	0.0000e+00
69	EMPTY	1.3525	1.3623	1.3566	2.0598e-03	0.0000e+00
70	EMPTY	1.3672	1.3672	1.3672	0.0000e+00	0.0000e+00
71	EMPTY	1.3818	1.3867	1.3866	6.9053e-04	0.0000e+00
72	EMPTY	1.3965	1.4014	1.3967	9.6655e-04	0.0000e+00
73	EMPTY	1.4063	1.4160	1.4112	1.2041e-03	0.0000e+00
74	EMPTY	1.4209	1.4258	1.4236	2.4484e-03	0.0000e+00
75	EMPTY	1.4355	1.4453	1.4382	2.6488e-03	0.0000e+00
76	EMPTY	1.4453	1.4502	1.4485	2.3365e-03	0.0000e+00
77	EMPTY	1.4600	1.4648	1.4646	9.6655e-04	0.0000e+00
78	EMPTY	1.4795	1.4844	1.4829	2.2603e-03	0.0000e+00
79	EMPTY	1.4990	1.5039	1.5009	2.3941e-03	0.0000e+00
80	PAN020136	-12.8833	-5.4828	-10.5655	2.2730e+00	8.7040e-01
81	PAN050136	-25.5038	-25.0461	-25.2597	1.3786e-01	1.6812e+00
82	PAN070136	-16.8635	-16.5584	-16.7079	8.8491e-02	8.7100e-01
83	PAN080136	-8.7385	-8.4333	-8.5920	8.2776e-02	8.7027e-01
84	PAN090136	-8.5506	-8.2454	-8.3949	7.3857e-02	8.7025e-01
85	PAN100136	-9.2608	-8.5742	-8.7527	1.4753e-01	8.7028e-01
86	PAN105136	-4.4962	-3.7333	-4.2475	1.3770e-01	8.7006e-01
87	PAN110136	-4.2335	-3.8520	-4.0778	8.5764e-02	8.7006e-01
88	PAN115136	-4.2452	-4.0163	-4.1644	6.2440e-02	8.7006e-01
89	PAN120136	-5.0331	-4.4228	-4.8043	1.6166e-01	8.7008e-01
90	PAN125136	-4.9672	-4.2805	-4.6101	1.8201e-01	8.7008e-01
91	PAN130136	-3.3415	-3.0363	-3.1187	7.3664e-02	8.7003e-01
92	PAN120048	-9.8154	-9.3576	-9.5865	1.1431e-01	8.7033e-01
93	PAN130048	-8.4391	-7.9051	-8.1462	1.2556e-01	8.7024e-01
94	PAN120224	-9.1169	-8.8117	-8.9918	7.0230e-02	8.7029e-01
95	PAN130224	-8.7897	-8.5609	-8.6570	7.6775e-02	8.7027e-01
96	PAN120312	-8.9586	-8.7297	-8.8273	6.7257e-02	8.7028e-01
97	PAN130312	-8.0166	-7.7114	-7.8381	7.6465e-02	8.7022e-01
98	PAB000136	39.9771	40.5264	40.1812	1.2242e-01	5.8863e-01
99	PAB100136	42.8892	43.1181	43.0137	4.9838e-02	5.8988e-01
100	PAB125136	43.6498	43.8329	43.7276	4.9155e-02	5.9021e-01

Test: Aug01_05

sum2

Date: Wed Aug 1 12:52:44 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.5255	40.1358	39.9015	1.6329e-01	7.5660e-01
102	PRV000001	19.6068	19.7289	19.7264	1.7263e-02	7.5162e-01
103	PSR000001	43.6570	43.9011	43.7937	6.3549e-02	7.5795e-01
104	PFM000001	5.3681	5.6428	5.4999	6.1790e-02	5.0019e-01
105	PAN000136	-108.0579	-97.0716	-102.6288	2.7806e+00	4.9267e+00
106	PFM000002	5.4712	5.6054	5.5521	3.0452e-02	2.0048e-01
107	EMPTY	-0.0049	0.0049	0.0033	3.3366e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0020	2.6100e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	101.8818	102.2724	102.0732	1.4493e-01	1.0155e+00
113	VPW000002	119.0768	119.4674	119.3111	1.1161e-01	1.0810e+00
114	VPW000003	146.5370	147.1229	146.8026	1.4095e-01	1.1966e+00
115	VPW000004	104.5936	105.1795	104.9178	1.5590e-01	1.0259e+00
116	VPW000005	139.5470	140.1330	139.8048	1.0763e-01	1.1661e+00
117	VPW000006	147.1792	147.7652	147.4331	1.3235e-01	1.1994e+00
118	IPW000001	544.7414	548.6461	545.9908	1.1674e+00	9.1769e+00
119	IPW000002	1302.9225	1310.7277	1306.2004	1.8254e+00	1.3118e+01
120	IPW000003	1326.7874	1330.6874	1329.6349	1.1288e+00	1.3264e+01
121	IPW000004	382.5120	384.9534	383.7228	5.6012e-01	3.6317e+00
122	IPW000005	253.7964	254.7728	254.1185	3.0578e-01	2.8338e+00
123	IPW000006	263.7940	265.7471	264.8877	4.5805e-01	2.8947e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	4.6907e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0130	3.6393e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0172	4.2131e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0153	3.8219e-03	0.0000e+00
128	IHT000001	129.0903	131.0434	129.9536	4.9140e-01	4.3010e+00
129	IHT000002	132.7749	134.9234	133.7788	4.9444e-01	4.3127e+00
130	IHT000003	133.1167	135.0699	133.9917	5.0569e-01	4.3134e+00
131	IHT000004	131.2425	133.3909	132.2426	5.5753e-01	4.3080e+00
132	IHT000005	129.6762	131.8247	130.6606	4.9436e-01	4.3032e+00
133	IHT000006	124.5493	126.5024	125.5806	4.8011e-01	4.2880e+00
134	IHT000007	131.5806	133.5337	132.5376	4.6563e-01	4.3089e+00
135	IHT000008	130.1157	132.0688	131.0415	4.8778e-01	4.3043e+00
136	IHT000009	130.6378	132.3956	131.5674	4.7279e-01	4.3059e+00
137	IHT000010	132.2791	135.0135	133.2831	6.1131e-01	4.3112e+00
138	IHT000011	130.5551	133.0942	131.6294	5.3123e-01	4.3061e+00
139	IHT000012	128.1551	131.0847	129.4832	6.1889e-01	4.2996e+00
140	IHT000013	90.9593	93.8890	92.4046	6.3870e-01	4.2028e+00
141	IHT000014	127.3438	130.2734	128.8477	6.3165e-01	4.2977e+00
142	IHT000015	94.8730	97.8027	96.1699	6.2360e-01	4.2113e+00
143	IHT000016	88.1460	91.0757	89.5640	5.7428e-01	4.1967e+00
144	IHT000017	104.7251	107.4594	105.9751	6.4235e-01	4.2347e+00
145	IHT000018	107.2491	109.7881	108.3233	6.0779e-01	4.2407e+00
146	IHT000019	103.1663	105.5101	104.1702	4.9601e-01	4.2303e+00
147	IHT000020	105.4124	108.1468	106.8226	5.4289e-01	4.2369e+00
148	IHT000021	-2.4151	-0.0714	-1.4698	6.0407e-01	4.1000e+00
149	IHT000022	92.5819	94.3397	93.2811	4.8180e-01	4.2048e+00
150	IHT000023	104.6575	106.6106	105.6105	4.6125e-01	4.2338e+00
151	IHT000024	70.0308	71.9839	70.8784	4.3155e-01	4.1608e+00
152	IHT000025	104.1091	106.0622	105.1716	4.3613e-01	4.2327e+00
153	IHT000026	105.1044	106.8622	106.0185	4.3124e-01	4.2349e+00
154	IHT000027	90.0053	91.9584	90.8061	4.3984e-01	4.1994e+00
155	IHT000028	91.1584	93.3068	92.2756	5.4396e-01	4.2026e+00

Test: Aug01_05

sum2

Date: Wed Aug 1 12:52:44 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.5580	105.5034	5.1750e-01	4.2336e+00
157	IHT000030	107.0162	109.1647	107.9303	4.6928e-01	4.2397e+00
158	IHT000031	105.7129	107.6660	106.4980	4.3133e-01	4.2361e+00
159	IHT000032	106.7383	108.6914	107.5977	4.9756e-01	4.2388e+00
160	IHT000033	106.7383	108.4961	107.5625	4.8695e-01	4.2387e+00
161	IHT000034	94.1031	95.4702	94.6929	3.8961e-01	4.2079e+00
162	IHT000035	124.0910	125.6535	124.8253	4.3505e-01	4.2858e+00
163	IHT000036	92.3903	94.1481	93.3435	4.6293e-01	4.2049e+00

Test: Aug01_05 dif Date: Wed Aug 1 12:52:44 1990 Page: 1

Velocity 1 = 0.069700 (ft/sec)

Velocity 2 = 0.042800 (ft/sec)

Pressure Drop = 0.065100 (psi)

Tsat in = 0.350983 (deg F) Tsat out = 0.331604 (deg F)

Phi inner = 0.350700 (kBtu/hr-ft2) Phi outer = 0.565407 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1404	0.1784
1	TRF000002	0.1268	0.1598
2	TFM000001	0.4388	0.5025
3	TIN000001	0.3936	0.4519
4	TRV000001	0.5840	0.6635
5	TSR000001	1.5662	1.1122
6	TAO020136	0.5259	0.7178
7	TAO050136	0.7535	0.4532
8	TAO070136	1.1573	0.6763
9	TAO080136	0.8082	0.4320
10	TAO090136	0.8544	0.4440
11	TAO100136	0.7244	0.3817
12	TAO105136	0.9583	0.4983
13	TAO110136	0.8230	0.4160
14	TAO115136	0.6731	0.3457
15	TAO120136	0.6668	0.3214
16	TAO125136	1.6201	1.2518
17	TAO130136	0.6054	0.3033
18	TAO120048	2.9163	3.0802
19	TAO130048	0.6452	0.3103
20	TAO120224	0.7331	0.3584
21	TAO130224	0.2914	0.1501
22	TAO120312	0.6591	0.3151
23	TAO130312	0.3441	0.1679
24	TRT020000	1.4874	0.9313
25	TRT070000	0.5192	0.2775
26	TRT100000	0.6306	0.3036
27	TRT120000	0.7020	0.3300
28	TRT125000	96.8889	21.4898
29	TRT130000	0.4118	0.1960
30	EMPTY	0.0413	0.1034
31	TAF050136	0.7253	0.6123
32	TAF070136	0.8028	0.6190
33	TAF080136	0.8423	0.4525
34	TAF090136	1.1234	1.3018
35	TAF100136	0.8247	0.5556
36	TAF105136	0.7405	0.4892
37	TAF110136	0.8922	0.5778
38	TAF115136	0.8790	0.5551
39	TAF120136	0.6790	0.3702
40	TAF125136	0.7488	0.4536
41	TAF130136	0.8295	0.4924
42	TAF120048	0.6805	0.4026
43	TAF130048	0.7947	0.4534
44	TAF120224	0.7083	0.4418
45	TAF130224	0.7255	0.4392

#	Name	Abs Diff	%Diff
46	EMPTY	0.0322	0.0844
47	EMPTY	0.0597	0.1504
48	TAI130048	0.7804	0.3841
49	TAI130136	1.0294	0.5118
50	TAI130224	0.7577	0.3692
51	TAI130312	0.8161	0.4166
52	TRR130000	0.7472	0.7411
53	TSI000001	0.2095	0.2941
54	TSI000002	0.9946	1.2093
55	TSO000001	0.1994	0.2800
56	TSO000002	0.0905	0.1105
57	TAF020136	0.6350	0.6500
58	TAF120312	0.7497	0.4514
59	TAF130312	0.6047	0.3380
60	EMPTY	0.0140	0.5419
61	EMPTY	0.0153	0.5927
62	EMPTY	0.0154	0.5973
63	EMPTY	0.0160	0.6198
64	EMPTY	0.0056	0.4367
65	EMPTY	0.0064	0.4927
66	EMPTY	0.0063	0.4802
67	EMPTY	0.0066	0.4977
68	EMPTY	0.0067	0.5015
69	EMPTY	0.0061	0.4517
70	EMPTY	0.0051	0.3744
71	EMPTY	0.0062	0.4492
72	EMPTY	0.0057	0.4098
73	EMPTY	0.0050	0.3556
74	EMPTY	0.0052	0.3666
75	EMPTY	0.0063	0.4400
76	EMPTY	0.0063	0.4368
77	EMPTY	0.0048	0.3288
78	EMPTY	0.0049	0.3315
79	EMPTY	0.0031	0.2070
80	PAN020136	1.6555	13.5464
81	PAN050136	0.0976	0.3879
82	PAN070136	0.0778	0.4678
83	PAN080136	0.0366	0.4242
84	PAN090136	0.0931	1.1215
85	PAN100136	0.0305	0.3497
86	PAN105136	0.0046	0.1082
87	PAN110136	0.0550	1.3308
88	PAN115136	0.0245	0.5918
89	PAN120136	0.3952	8.9633
90	PAN125136	0.2441	5.0286
91	PAN130136	0.1404	4.3079
92	PAN120048	0.2182	2.3291
93	PAN130048	0.1495	1.8021
94	PAN120224	0.0092	0.1024
95	PAN130224	0.0366	0.4246
96	PAN120312	0.1068	1.2247
97	PAN130312	0.0915	1.1539
98	PAB000136	0.2372	0.5869
99	PAB100136	0.2600	0.6008
100	PAB125136	0.2408	0.5477

#	Name	Abs Diff	%Diff
101	PIN000001	0.3955	0.9815
102	PRV000001	0.0561	0.2852
103	PSR000001	0.2808	0.6371
104	PFM000001	0.1300	2.3091
105	PAN000136	1.8036	1.7271
106	PFM000002	0.0802	1.4239
107	EMPTY	0.0014	29.7872
108	EMPTY	0.0000	0.0000
109	EMPTY	0.0007	25.9259
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.1289	0.1261
113	VPW000002	0.0195	0.0163
114	VPW000003	0.0157	0.0107
115	VPW000004	0.0430	0.0410
116	VPW000005	0.1406	0.1007
117	VPW000006	0.0196	0.0133
118	IPW000001	4.2171	0.7784
119	IPW000002	5.6191	0.4320
120	IPW000003	5.7715	0.4322
121	IPW000004	3.9648	1.0440
122	IPW000005	0.9665	0.3818
123	IPW000006	0.4004	0.1514
124	EMPTY	0.0042	24.7059
125	EMPTY	0.0019	17.1171
126	EMPTY	0.0039	29.3233
127	EMPTY	0.0005	3.3784
128	IHT000001	0.1992	0.1531
129	IHT000002	0.1133	0.0846
130	IHT000003	0.0547	0.0408
131	IHT000004	0.0703	0.0531
132	IHT000005	0.1172	0.0896
133	IHT000006	0.0156	0.0124
134	IHT000007	0.0351	0.0265
135	IHT000008	0.1133	0.0864
136	IHT000009	0.1328	0.1008
137	IHT000010	0.1484	0.1112
138	IHT000011	0.1875	0.1422
139	IHT000012	0.1446	0.1116
140	IHT000013	0.0976	0.1055
141	IHT000014	0.0781	0.0606
142	IHT000015	0.1602	0.1663
143	IHT000016	0.3555	0.3954
144	IHT000017	1.5156	1.4100
145	IHT000018	0.3437	0.3163
146	IHT000019	0.1719	0.1648
147	IHT000020	0.2109	0.1970
148	IHT000021	0.2422	19.7296
149	IHT000022	0.3750	0.4004
150	IHT000023	0.1602	0.1515
151	IHT000024	0.2032	0.2859
152	IHT000025	0.2070	0.1964
153	IHT000026	0.2344	0.2206
154	IHT000027	0.3828	0.4198
155	IHT000028	0.3007	0.3248

Test: Aug01_05 dif Date: Wed Aug 1 12:52:44 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1992	0.1884
157	IHT000030	0.2383	0.2203
158	IHT000031	0.2305	0.2160
159	IHT000032	0.2031	0.1884
160	IHT000033	0.1719	0.1596
161	IHT000034	0.0508	0.0536
162	IHT000035	0.0390	0.0313
163	IHT000036	0.0351	0.0376

Test: Aug01_06

suml

Date: Wed Aug 1 13:08:25 1990

Page: 1

Velocity 1 = 4.0650 (ft/sec) (+/- 10.3350 %)
Velocity 2 = 4.0695 (ft/sec) (+/- 4.0266 %)
Pressure drop = -4.6454 (psi)
Tsat in = 268.0973 (deg F) Tsat out = 274.2956 (deg F)
Phi inner = 99.6738 (kBtu/hr-ft2) (+/- 1.4157 %)
Phi outer = 100.5761 (kBtu/hr-ft2) (+/- 1.5428 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	79.0140	79.4391	79.2010	1.5859e-01	1.9001e+00
1	TRF000002	79.4688	79.8915	79.5745	1.2986e-01	1.9001e+00
2	TFM000001	87.7913	88.7355	88.1673	1.8484e-01	1.9002e+00
3	TIN000001	87.2624	87.8942	87.5593	1.4375e-01	1.9002e+00
4	TRV000001	88.4661	89.4085	88.9915	1.9880e-01	1.9002e+00
5	TSR000001	149.0726	152.9535	151.1131	8.9807e-01	1.9044e+00
6	TAO020136	74.0556	77.4557	75.7034	9.6282e-01	1.9000e+00
7	TAO050136	196.5738	198.4011	197.4681	4.7047e-01	1.9109e+00
8	TAO070136	208.4538	210.1890	209.3656	4.5382e-01	1.9130e+00
9	TAO080136	225.7533	226.6048	226.1601	1.7948e-01	1.9164e+00
10	TAO090136	233.2144	234.1581	233.7030	2.2833e-01	1.9180e+00
11	TAO100136	231.1177	233.0059	232.0188	4.1741e-01	1.9176e+00
12	TAO105136	237.4163	238.6432	238.0864	3.0271e-01	1.9189e+00
13	TAO110136	244.4590	245.6677	245.0470	2.8350e-01	1.9205e+00
14	TAO115136	241.4320	242.9369	242.1075	4.3217e-01	1.9199e+00
15	TAO120136	255.4124	256.7169	256.2377	2.5390e-01	1.9232e+00
16	TAO125136	161.1978	164.8579	162.5228	7.9458e-01	1.9058e+00
17	TAO130136	247.1770	249.3038	248.2663	4.6052e-01	1.9213e+00
18	TAO120048	101.1374	102.2800	101.7543	2.9391e-01	1.9007e+00
19	TAO130048	258.5751	259.4093	258.9104	1.7664e-01	1.9239e+00
20	TAO120224	251.0525	252.8260	252.0735	4.5269e-01	1.9222e+00
21	TAO130224	239.8277	241.5018	240.8074	4.1174e-01	1.9196e+00
22	TAO120312	258.3784	259.5891	259.1809	2.8590e-01	1.9240e+00
23	TAO130312	253.2539	254.4648	253.9115	2.9162e-01	1.9227e+00
24	TRT020000	186.4843	187.5587	187.0371	2.7314e-01	1.9092e+00
25	TRT070000	225.2525	226.3989	225.8388	2.7967e-01	1.9163e+00
26	TRT100000	255.2256	256.0629	255.6110	2.0751e-01	1.9231e+00
27	TRT120000	265.7514	267.1381	266.3677	2.6539e-01	1.9258e+00
28	TRT125000	94.3649	451.2833	345.7997	1.0442e+02	1.9506e+00
29	TRT130000	260.6719	261.5072	261.0969	1.9122e-01	1.9244e+00
30	EMPTY	39.3761	40.2940	39.8352	2.3642e-01	1.9011e+00
31	TAF050136	134.9120	137.3303	135.9626	5.3535e-01	1.9029e+00
32	TAF070136	152.1349	154.0213	153.0436	4.3394e-01	1.9046e+00
33	TAF080136	222.4808	228.6967	225.9161	1.5380e+00	1.9163e+00
34	TAF090136	90.4401	91.3830	90.9325	2.3568e-01	1.9003e+00
35	TAF100136	181.1920	184.1289	182.2755	6.3372e-01	1.9085e+00
36	TAF105136	185.0775	188.6554	186.4151	6.6104e-01	1.9091e+00
37	TAF110136	189.9098	193.3927	190.9887	7.4677e-01	1.9098e+00
38	TAF115136	195.2319	197.5499	196.2504	5.1208e-01	1.9107e+00
39	TAF120136	228.4897	233.1974	231.1361	1.0627e+00	1.9174e+00
40	TAF125136	205.9001	211.5167	208.1098	1.4584e+00	1.9128e+00
41	TAF130136	210.6688	214.5842	212.3209	1.1920e+00	1.9136e+00
42	TAF120048	209.7156	215.3998	212.4785	1.3348e+00	1.9136e+00
43	TAF130048	220.3711	222.4610	221.3763	4.7816e-01	1.9154e+00
44	TAF120224	197.2981	202.0247	199.5430	1.4146e+00	1.9113e+00
45	TAF130224	205.7366	208.2481	206.9287	6.0256e-01	1.9126e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.3794e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8260	1.2232e-01	1.9011e+00
48	TAI130048	255.7939	258.1220	256.7345	5.0353e-01	1.9233e+00
49	TAI130136	252.5095	253.5347	253.0965	2.5948e-01	1.9225e+00
50	TAI130224	256.2383	257.7314	257.0986	3.4311e-01	1.9234e+00
51	TAI130312	245.7603	247.2614	246.5844	3.6715e-01	1.9209e+00
52	TRR130000	107.2496	109.3099	108.1054	4.0059e-01	1.9010e+00
53	TSI000001	70.6496	71.1824	70.8437	1.4856e-01	1.9000e+00
54	TSI000002	85.0098	90.9792	87.4232	1.3863e+00	1.9002e+00
55	TSO000001	70.0796	70.9353	70.5739	1.8447e-01	1.9000e+00
56	TSO000002	84.9558	85.7981	85.3746	2.0237e-01	1.9002e+00
57	TAF020136	102.7740	104.3399	103.6702	3.6165e-01	1.9008e+00
58	TAF120312	205.8492	209.4997	207.4046	8.3584e-01	1.9127e+00
59	TAF130312	222.2623	227.0024	224.4652	1.1812e+00	1.9160e+00
60	EMPTY	3.6914	3.7598	3.7219	2.0158e-02	0.0000e+00
61	EMPTY	3.6914	3.7402	3.7106	1.5673e-02	0.0000e+00
62	EMPTY	3.6816	3.7207	3.6989	1.3279e-02	0.0000e+00
63	EMPTY	3.6768	3.7158	3.6937	1.1848e-02	0.0000e+00
64	EMPTY	1.7627	1.7773	1.7693	5.4712e-03	0.0000e+00
65	EMPTY	1.7773	1.7969	1.7844	5.1411e-03	0.0000e+00
66	EMPTY	1.7871	1.8018	1.7928	5.0648e-03	0.0000e+00
67	EMPTY	1.7969	1.8115	1.8041	4.0960e-03	0.0000e+00
68	EMPTY	1.8066	1.8164	1.8097	4.0542e-03	0.0000e+00
69	EMPTY	1.8164	1.8311	1.8218	3.9766e-03	0.0000e+00
70	EMPTY	1.8262	1.8359	1.8295	3.6165e-03	0.0000e+00
71	EMPTY	1.8359	1.8555	1.8457	3.4173e-03	0.0000e+00
72	EMPTY	1.8506	1.8604	1.8523	2.7480e-03	0.0000e+00
73	EMPTY	1.8604	1.8701	1.8657	2.0337e-03	0.0000e+00
74	EMPTY	1.8701	1.8799	1.8746	2.3839e-03	0.0000e+00
75	EMPTY	1.8848	1.8896	1.8860	2.1635e-03	0.0000e+00
76	EMPTY	1.8896	1.8994	1.8937	2.3531e-03	0.0000e+00
77	EMPTY	1.9043	1.9092	1.9071	2.4344e-03	0.0000e+00
78	EMPTY	1.9189	1.9287	1.9231	1.9754e-03	0.0000e+00
79	EMPTY	1.9385	1.9434	1.9393	1.8082e-03	0.0000e+00
80	PAN020136	-16.1639	-15.3247	-15.6253	2.0875e-01	8.7088e-01
81	PAN050136	-33.8962	-30.3867	-32.3307	1.2396e+00	1.6819e+00
82	PAN070136	-21.1360	-17.2450	-18.8502	1.2763e+00	8.7128e-01
83	PAN080136	-14.0791	-10.5696	-12.9881	1.2104e+00	8.7061e-01
84	PAN090136	-13.2045	-10.6868	-12.3668	8.2048e-01	8.7055e-01
85	PAN100136	-10.6341	-7.1246	-9.3554	8.5703e-01	8.7031e-01
86	PAN105136	-5.5643	-1.6733	-3.7027	8.1006e-01	8.7005e-01
87	PAN110136	-5.2253	-2.5550	-3.9756	6.2817e-01	8.7006e-01
88	PAN115136	-7.5259	-2.5668	-4.6374	9.5403e-01	8.7008e-01
89	PAN120136	-6.0250	3.8932	-4.3511	1.8826e+00	8.7007e-01
90	PAN125136	-6.0353	-3.8990	-5.0480	6.3053e-01	8.7009e-01
91	PAN130136	-7.6902	2.4569	-4.2722	1.6879e+00	8.7007e-01
92	PAN120048	-11.7228	-4.5511	-10.0092	1.1095e+00	8.7036e-01
93	PAN130048	-12.8642	-7.8288	-9.3791	8.3752e-01	8.7032e-01
94	PAN120224	-12.5501	-5.9126	-9.8371	1.0746e+00	8.7035e-01
95	PAN130224	-14.0540	-7.6453	-10.0898	1.1447e+00	8.7037e-01
96	PAN120312	-12.3918	-7.0512	-10.0068	1.0550e+00	8.7036e-01
97	PAN130312	-11.2210	-2.7523	-9.1229	1.3266e+00	8.7030e-01
98	PAB000136	40.3891	40.6637	40.4916	6.1038e-02	5.8877e-01
99	PAB100136	44.0336	44.2625	44.1572	6.2895e-02	5.9041e-01
100	PAB125136	44.7484	45.0231	44.8885	5.8790e-02	5.9076e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0138	40.3800	40.1871	9.5801e-02	7.5670e-01
102	PRV0000001	19.6068	19.8509	19.6874	6.3406e-02	7.5161e-01
103	PSR0000001	44.7556	45.1218	45.0022	5.7785e-02	7.5839e-01
104	PFM0000001	2.3469	2.6215	2.4512	7.4009e-02	5.0004e-01
105	PAN000136	-130.9461	-119.9598	-128.6115	1.6105e+00	4.9305e+00
106	PFM0000002	2.4005	2.5180	2.4569	2.6206e-02	2.0009e-01
107	EMPTY	-0.0049	0.0098	0.0016	4.2361e-03	0.0000e+00
108	EMPTY	-7.2314	-3.0469	-4.8918	8.0422e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0012	2.3261e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	101.4911	103.0536	102.3896	4.2682e-01	1.0166e+00
113	VPW0000002	119.0768	120.0533	119.5806	2.3374e-01	1.0821e+00
114	VPW0000003	146.3417	147.5135	146.9979	3.1754e-01	1.1975e+00
115	VPW0000004	103.8123	105.7655	104.9803	4.1477e-01	1.0261e+00
116	VPW0000005	138.5705	140.7189	139.8986	4.8166e-01	1.1665e+00
117	VPW0000006	146.5933	148.1558	147.6441	4.4449e-01	1.2004e+00
118	IPW0000001	554.5031	572.0742	564.2649	4.5145e+00	9.2456e+00
119	IPW0000002	1267.7997	1283.4098	1277.5951	2.9890e+00	1.2941e+01
120	IPW0000003	1305.3374	1317.0375	1311.1484	2.7715e+00	1.3149e+01
121	IPW0000004	380.0706	385.9300	383.5080	1.5752e+00	3.6303e+00
122	IPW0000005	250.3787	254.2846	252.8200	9.4610e-01	2.8265e+00
123	IPW0000006	259.8877	263.7940	262.2705	1.0608e+00	2.8797e+00
124	EMPTY	-0.0293	-0.0098	-0.0183	4.1631e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.5743e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0146	4.1853e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.1874e-03	0.0000e+00
128	IHT0000001	128.5044	131.6294	129.9614	6.9274e-01	4.3010e+00
129	IHT0000002	132.1890	135.3140	133.7554	6.2327e-01	4.3127e+00
130	IHT0000003	132.3355	135.4605	133.9878	6.5341e-01	4.3134e+00
131	IHT0000004	130.4613	133.5863	132.1918	6.5198e-01	4.3078e+00
132	IHT0000005	129.0903	132.2153	130.6020	6.1613e-01	4.3030e+00
133	IHT0000006	123.9633	126.8930	125.4321	5.7350e-01	4.2876e+00
134	IHT0000007	130.7993	133.7290	132.3579	5.6150e-01	4.3083e+00
135	IHT0000008	129.3344	132.0688	130.7681	5.0472e-01	4.3035e+00
136	IHT0000009	129.8565	132.5909	131.2901	5.6581e-01	4.3051e+00
137	IHT0000010	131.6932	134.2323	133.4276	5.7540e-01	4.3116e+00
138	IHT0000011	129.7739	132.7036	131.6138	6.4003e-01	4.3061e+00
139	IHT0000012	127.5691	130.4988	129.3622	6.3710e-01	4.2992e+00
140	IHT0000013	90.3733	93.3030	92.2366	6.2913e-01	4.2025e+00
141	IHT0000014	126.7578	129.8828	128.6758	6.7276e-01	4.2972e+00
142	IHT0000015	94.0918	97.2168	96.0293	5.8772e-01	4.2110e+00
143	IHT0000016	87.9507	90.8804	89.6812	6.1004e-01	4.1969e+00
144	IHT0000017	104.9204	108.4360	106.7017	7.3678e-01	4.2366e+00
145	IHT0000018	107.4444	110.1788	108.5030	5.7601e-01	4.2411e+00
146	IHT0000019	102.9710	105.5101	104.3030	5.5900e-01	4.2306e+00
147	IHT0000020	105.6077	108.1468	106.8538	5.4231e-01	4.2370e+00
148	IHT0000021	-3.0010	0.1240	-1.3331	6.3406e-01	4.1000e+00
149	IHT0000022	91.8006	94.7303	93.4451	6.3146e-01	4.2051e+00
150	IHT0000023	104.2668	106.8059	105.6105	5.2146e-01	4.2338e+00
151	IHT0000024	69.8355	71.7886	70.8863	4.6670e-01	4.1608e+00
152	IHT0000025	104.1091	106.0622	105.2184	4.8398e-01	4.2329e+00
153	IHT0000026	105.1044	107.2528	106.0966	4.5990e-01	4.2351e+00
154	IHT0000027	89.6146	92.1537	91.0366	5.5248e-01	4.1999e+00
155	IHT0000028	90.7677	93.6974	92.3381	7.8221e-01	4.2027e+00

Test: Aug01_06

sum1

Date: Wed Aug 1 13:08:25 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4095	106.9486	105.6206	6.1257e-01	4.2339e+00
157	IHT000030	107.0162	109.3600	108.0905	6.1795e-01	4.2401e+00
158	IHT000031	105.5176	107.8613	106.6777	6.3185e-01	4.2365e+00
159	IHT000032	106.5430	108.6914	107.7227	6.3865e-01	4.2392e+00
160	IHT000033	106.5430	108.6914	107.6641	6.4454e-01	4.2390e+00
161	IHT000034	93.1265	95.8609	94.5171	6.6689e-01	4.2075e+00
162	IHT000035	123.3098	126.0442	124.6574	6.9615e-01	4.2853e+00
163	IHT000036	91.8044	94.3435	93.1638	6.5073e-01	4.2045e+00

Velocity 1 = 3.9779 (ft/sec) (+/- 10.7911 %)
Velocity 2 = 4.0477 (ft/sec) (+/- 4.0635 %)
Pressure drop = -4.6527 (psi)
Tsat in = 267.9906 (deg F) Tsat out = 274.2276 (deg F)
Phi inner = 101.3150 (kBtu/hr-ft2) (+/- 1.4111 %)
Phi outer = 100.4329 (kBtu/hr-ft2) (+/- 1.5449 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	79.0140	79.6516	79.2988	1.6412e-01	1.9001e+00
1	TRF000002	79.4688	79.8915	79.7563	1.4005e-01	1.9001e+00
2	TFM000001	87.7922	88.5265	88.2390	1.7579e-01	1.9002e+00
3	TIN000001	87.2624	87.9994	87.6771	1.5968e-01	1.9002e+00
4	TRV000001	88.9888	89.6187	89.3057	1.8002e-01	1.9003e+00
5	TSR000001	155.0374	158.3087	156.6503	8.5306e-01	1.9051e+00
6	TAO020136	76.2879	78.9404	77.8139	7.2583e-01	1.9000e+00
7	TAO050136	197.4380	199.0740	198.3109	3.6970e-01	1.9111e+00
8	TAO070136	210.3807	212.1142	211.3806	4.0374e-01	1.9134e+00
9	TAO080136	226.3191	226.9835	226.6891	1.8541e-01	1.9165e+00
10	TAO090136	233.4969	234.5343	234.1219	2.1962e-01	1.9181e+00
11	TAO100136	231.9683	234.3257	232.6269	4.5986e-01	1.9177e+00
12	TAO105136	238.0768	239.3969	238.6372	2.9293e-01	1.9191e+00
13	TAO110136	245.2961	246.5956	245.9326	2.7954e-01	1.9207e+00
14	TAO115136	241.4329	243.4066	242.4648	5.1890e-01	1.9199e+00
15	TAO120136	256.7163	257.6482	257.1913	2.2756e-01	1.9235e+00
16	TAO125136	163.1771	170.3790	165.7757	1.6677e+00	1.9062e+00
17	TAO130136	248.1031	250.0407	248.8992	4.4905e-01	1.9214e+00
18	TAO120048	103.0044	104.2488	103.7285	2.7814e-01	1.9008e+00
19	TAO130048	259.3159	260.1492	259.7259	1.8369e-01	1.9241e+00
20	TAO120224	251.5187	253.5722	252.9731	3.8727e-01	1.9224e+00
21	TAO130224	240.1082	242.2480	240.9504	4.4071e-01	1.9196e+00
22	TAO120312	259.3089	260.7057	259.8883	2.3434e-01	1.9241e+00
23	TAO130312	253.7193	254.7440	254.2468	1.9700e-01	1.9227e+00
24	TRT020000	186.8746	188.3396	187.6073	3.5746e-01	1.9093e+00
25	TRT070000	225.6340	226.7797	226.2281	2.6540e-01	1.9164e+00
26	TRT100000	255.8777	256.8993	256.3768	2.3371e-01	1.9233e+00
27	TRT120000	266.6766	267.6015	267.1188	2.2055e-01	1.9260e+00
28	TRT125000	124.5065	246.0724	207.0461	2.7171e+01	1.9126e+00
29	TRT130000	261.5980	262.1555	261.8864	1.1908e-01	1.9246e+00
30	EMPTY	39.3761	40.2940	39.8948	2.0635e-01	1.9011e+00
31	TAF050136	135.1149	137.2301	136.0520	4.9096e-01	1.9029e+00
32	TAF070136	152.4339	154.2213	153.3740	4.8189e-01	1.9047e+00
33	TAF080136	223.6127	228.4130	226.2191	1.0555e+00	1.9164e+00
34	TAF090136	91.3822	92.6379	92.0495	2.7619e-01	1.9003e+00
35	TAF100136	181.7800	184.0314	182.6475	5.0027e-01	1.9085e+00
36	TAF105136	185.7579	188.2689	186.9458	7.2205e-01	1.9092e+00
37	TAF110136	190.3955	193.1021	191.6588	6.5146e-01	1.9099e+00
38	TAF115136	196.0045	197.8395	196.8687	4.2396e-01	1.9108e+00
39	TAF120136	229.9982	234.5141	232.2056	1.1306e+00	1.9176e+00
40	TAF125136	206.9543	211.1393	208.5951	9.7566e-01	1.9129e+00
41	TAF130136	211.2415	216.3006	212.7111	1.1726e+00	1.9137e+00
42	TAF120048	211.4521	214.7252	212.7250	7.2620e-01	1.9137e+00
43	TAF130048	220.9404	223.8865	221.9774	6.0892e-01	1.9155e+00
44	TAF120224	198.2637	203.2759	200.2724	1.3034e+00	1.9114e+00
45	TAF130224	206.3160	208.7301	207.2683	5.3994e-01	1.9127e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1813	2.1786e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8535	1.0200e-01	1.9011e+00
48	TAI130048	256.4460	258.4007	257.4125	4.4386e-01	1.9235e+00
49	TAI130136	253.2538	254.2781	253.7816	2.3164e-01	1.9226e+00
50	TAI130224	257.3577	258.4774	257.9680	3.0223e-01	1.9237e+00
51	TAI130312	246.6054	248.0113	247.3234	2.9691e-01	1.9211e+00
52	TRR130000	111.4676	113.1110	112.2224	3.9886e-01	1.9012e+00
53	TSI000001	70.1194	70.9712	70.5640	1.9671e-01	1.9000e+00
54	TSI000002	78.8010	86.3730	81.6554	1.7355e+00	1.9001e+00
55	TSO000001	69.6512	70.6137	70.2008	2.0275e-01	1.9000e+00
56	TSO000002	84.6394	85.5882	85.1432	2.1841e-01	1.9002e+00
57	TAF020136	102.8792	104.6527	103.7822	3.5489e-01	1.9008e+00
58	TAF120312	206.5224	211.9930	209.1483	1.5518e+00	1.9130e+00
59	TAF130312	222.2617	226.6251	224.5721	8.1955e-01	1.9160e+00
60	EMPTY	3.7012	3.7402	3.7213	8.9133e-03	0.0000e+00
61	EMPTY	3.7012	3.7207	3.7099	5.2469e-03	0.0000e+00
62	EMPTY	3.6914	3.7109	3.6994	3.7899e-03	0.0000e+00
63	EMPTY	3.6865	3.7061	3.6950	3.9224e-03	0.0000e+00
64	EMPTY	1.7676	1.7822	1.7726	2.8744e-03	0.0000e+00
65	EMPTY	1.7822	1.7969	1.7876	3.5908e-03	0.0000e+00
66	EMPTY	1.7920	1.8066	1.7964	4.2142e-03	0.0000e+00
67	EMPTY	1.8018	1.8213	1.8090	4.6522e-03	0.0000e+00
68	EMPTY	1.8115	1.8262	1.8160	5.1107e-03	0.0000e+00
69	EMPTY	1.8213	1.8408	1.8275	5.4068e-03	0.0000e+00
70	EMPTY	1.8311	1.8506	1.8365	5.8892e-03	0.0000e+00
71	EMPTY	1.8457	1.8652	1.8528	5.5110e-03	0.0000e+00
72	EMPTY	1.8506	1.8701	1.8607	5.9057e-03	0.0000e+00
73	EMPTY	1.8652	1.8848	1.8739	4.9609e-03	0.0000e+00
74	EMPTY	1.8750	1.8896	1.8832	5.0725e-03	0.0000e+00
75	EMPTY	1.8848	1.9043	1.8948	4.7730e-03	0.0000e+00
76	EMPTY	1.8945	1.9092	1.9028	4.7566e-03	0.0000e+00
77	EMPTY	1.9043	1.9189	1.9154	4.1899e-03	0.0000e+00
78	EMPTY	1.9238	1.9336	1.9312	3.3073e-03	0.0000e+00
79	EMPTY	1.9434	1.9531	1.9487	3.4527e-03	0.0000e+00
80	PAN020136	-15.8587	-15.4010	-15.6253	1.0156e-01	8.7088e-01
81	PAN050136	-34.5065	-29.9289	-32.2574	1.3685e+00	1.6819e+00
82	PAN070136	-20.8308	-16.6346	-18.7434	1.3190e+00	8.7126e-01
83	PAN080136	-14.0791	-10.6458	-13.3146	1.0786e+00	8.7064e-01
84	PAN090136	-13.2045	-10.6105	-12.3607	6.8299e-01	8.7055e-01
85	PAN100136	-10.3289	-1.2499	-8.5391	1.4907e+00	8.7026e-01
86	PAN105136	-7.7768	-1.1393	-3.4327	1.2470e+00	8.7004e-01
87	PAN110136	-7.3615	5.4559	-3.6720	2.4178e+00	8.7005e-01
88	PAN115136	-7.6022	-3.1008	-5.1623	1.2009e+00	8.7010e-01
89	PAN120136	-6.0250	4.8851	-4.1802	2.4642e+00	8.7006e-01
90	PAN125136	-6.1116	-3.5939	-4.8909	6.7995e-01	8.7009e-01
91	PAN130136	-5.6303	-0.6712	-4.5393	8.7346e-01	8.7007e-01
92	PAN120048	-12.0279	-7.7555	-10.3983	8.3131e-01	8.7039e-01
93	PAN130048	-10.7280	-7.2947	-9.5851	6.7231e-01	8.7033e-01
94	PAN120224	-12.5501	-4.6156	-9.7242	1.4917e+00	8.7034e-01
95	PAN130224	-14.0540	-9.0186	-10.1783	9.0088e-01	8.7037e-01
96	PAN120312	-11.2474	-3.6180	-9.4667	1.4132e+00	8.7032e-01
97	PAN130312	-14.2727	-8.4744	-9.6600	1.2207e+00	8.7034e-01
98	PAB000136	40.3433	40.5264	40.4193	4.5879e-02	5.8874e-01
99	PAB100136	43.7589	44.2167	44.0885	7.9556e-02	5.9038e-01
100	PAB125136	44.7484	44.9773	44.8381	5.3095e-02	5.9073e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1358	40.3800	40.3116	7.8609e-02	7.5674e-01
102	PRV0000001	19.6068	19.7289	19.7020	5.1081e-02	7.5162e-01
103	PSR0000001	44.8777	44.9998	44.9631	5.6508e-02	7.5838e-01
104	PFM0000001	2.2553	2.4384	2.3450	4.3339e-02	5.0003e-01
105	PAN000136	-130.4883	-122.2486	-128.8129	1.1684e+00	4.9305e+00
106	PFM0000002	2.3837	2.4676	2.4300	2.1322e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0017	3.8975e-03	0.0000e+00
108	EMPTY	-10.0000	-0.5957	-7.4330	2.5183e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	1.9331e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	101.6865	102.4677	101.9951	1.6312e-01	1.0152e+00
113	VPW0000002	119.0768	119.6627	119.4634	1.1497e-01	1.0816e+00
114	VPW0000003	146.7323	147.3182	147.0253	1.2633e-01	1.1976e+00
115	VPW0000004	104.5936	105.3748	104.9999	1.5705e-01	1.0262e+00
116	VPW0000005	139.7424	140.1330	140.0157	1.1838e-01	1.1670e+00
117	VPW0000006	147.3745	147.9605	147.6870	1.1838e-01	1.2005e+00
118	IPW0000001	534.9797	538.8844	536.6196	1.3867e+00	9.1423e+00
119	IPW0000002	1302.9225	1308.7764	1306.5518	1.8495e+00	1.3121e+01
120	IPW0000003	1332.6375	1338.4874	1335.4066	1.3698e+00	1.3301e+01
121	IPW0000004	375.1878	377.1409	376.2228	4.9951e-01	3.5824e+00
122	IPW0000005	252.8199	253.7964	253.2008	3.1641e-01	2.8286e+00
123	IPW0000006	262.8174	264.7705	263.6084	3.9323e-01	2.8874e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.8409e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	2.5648e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.4016e-03	0.0000e+00
128	IHT0000001	128.8950	131.0434	129.7583	5.0546e-01	4.3004e+00
129	IHT0000002	132.7749	134.7281	133.6030	5.1382e-01	4.3122e+00
130	IHT0000003	133.1167	134.8745	133.8511	4.8417e-01	4.3130e+00
131	IHT0000004	131.0472	133.1956	132.0511	5.1298e-01	4.3074e+00
132	IHT0000005	129.4809	131.4341	130.4888	5.4869e-01	4.3026e+00
133	IHT0000006	124.5493	126.1118	125.3501	4.9951e-01	4.2873e+00
134	IHT0000007	131.3852	133.5337	132.2915	5.0803e-01	4.3081e+00
135	IHT0000008	129.9204	131.8735	130.7993	4.8688e-01	4.3036e+00
136	IHT0000009	130.6378	132.5909	131.3057	5.0237e-01	4.3051e+00
137	IHT0000010	131.8885	134.2323	133.2245	5.3286e-01	4.3110e+00
138	IHT0000011	130.5551	132.7036	131.5708	5.1297e-01	4.3059e+00
139	IHT0000012	128.1551	130.3035	129.3700	4.9488e-01	4.2993e+00
140	IHT0000013	91.1546	93.4983	92.2835	4.6403e-01	4.2026e+00
141	IHT0000014	127.5391	129.8828	128.6875	4.7292e-01	4.2972e+00
142	IHT0000015	94.6777	97.2168	95.9902	4.4124e-01	4.2109e+00
143	IHT0000016	88.3414	90.6851	89.2632	4.3591e-01	4.1960e+00
144	IHT0000017	104.7251	107.4594	105.8345	5.6969e-01	4.2344e+00
145	IHT0000018	107.2491	110.1788	108.2178	5.9446e-01	4.2404e+00
146	IHT0000019	102.7757	105.7054	104.2054	5.9509e-01	4.2304e+00
147	IHT0000020	105.4124	107.7561	106.7171	5.6695e-01	4.2366e+00
148	IHT0000021	-2.8057	-0.0714	-1.5128	6.8219e-01	4.1000e+00
149	IHT0000022	91.9959	94.3397	92.9881	6.0340e-01	4.2041e+00
150	IHT0000023	104.4621	106.4153	105.3996	5.7318e-01	4.2333e+00
151	IHT0000024	69.8355	71.7886	70.6948	5.4534e-01	4.1605e+00
152	IHT0000025	104.1091	106.0622	105.0231	5.3879e-01	4.2324e+00
153	IHT0000026	105.1044	107.2528	105.9209	4.9077e-01	4.2346e+00
154	IHT0000027	89.8100	91.7631	90.5873	5.0608e-01	4.1989e+00
155	IHT0000028	90.3771	93.3068	91.9670	6.4839e-01	4.2019e+00

Test: Aug01_06

sum2

Date: Wed Aug 1 13:08:25 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.2142	107.1439	105.4526	6.3700e-01	4.2334e+00
157	IHT000030	106.6256	109.5553	107.9108	6.5208e-01	4.2396e+00
158	IHT000031	105.3223	107.6660	106.4473	6.1708e-01	4.2359e+00
159	IHT000032	106.3477	108.6914	107.5117	6.8227e-01	4.2386e+00
160	IHT000033	106.1523	108.6914	107.4726	6.8181e-01	4.2385e+00
161	IHT000034	93.3218	95.8609	94.5093	6.1364e-01	4.2075e+00
162	IHT000035	123.3098	125.8488	124.6847	6.3621e-01	4.2854e+00
163	IHT000036	91.9997	94.3435	93.2263	5.7998e-01	4.2047e+00

Test: Aug01_06 dif Date: Wed Aug 1 13:08:25 1990 Page: 1

Velocity 1 = 0.087100 (ft/sec)

Velocity 2 = 0.021800 (ft/sec)

Pressure Drop = 0.007300 (psi)

Tsat in = 0.106689 (deg F) Tsat out = 0.067993 (deg F)

Phi inner = 1.641205 (kBtu/hr-ft2) Phi outer = 0.143204 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0978	0.1235
1	TRF000002	0.1818	0.2285
2	TFM000001	0.0717	0.0813
3	TIN000001	0.1178	0.1345
4	TRV000001	0.3142	0.3531
5	TSR000001	5.5372	3.6643
6	TAO020136	2.1105	2.7879
7	TAO050136	0.8428	0.4268
8	TAO070136	2.0150	0.9624
9	TAO080136	0.5290	0.2339
10	TAO090136	0.4189	0.1792
11	TAO100136	0.6081	0.2621
12	TAO105136	0.5508	0.2313
13	TAO110136	0.8856	0.3614
14	TAO115136	0.3573	0.1476
15	TAO120136	0.9536	0.3722
16	TAO125136	3.2529	2.0015
17	TAO130136	0.6329	0.2549
18	TAO120048	1.9742	1.9402
19	TAO130048	0.8155	0.3150
20	TAO120224	0.8996	0.3569
21	TAO130224	0.1430	0.0594
22	TAO120312	0.7074	0.2729
23	TAO130312	0.3353	0.1321
24	TRT020000	0.5702	0.3049
25	TRT070000	0.3893	0.1724
26	TRT100000	0.7658	0.2996
27	TRT120000	0.7511	0.2820
28	TRT125000	138.7536	40.1254
29	TRT130000	0.7895	0.3024
30	EMPTY	0.0596	0.1496
31	TAF050136	0.0894	0.0658
32	TAF070136	0.3304	0.2159
33	TAF080136	0.3030	0.1341
34	TAF090136	1.1170	1.2284
35	TAF100136	0.3720	0.2041
36	TAF105136	0.5307	0.2847
37	TAF110136	0.6701	0.3509
38	TAF115136	0.6183	0.3151
39	TAF120136	1.0695	0.4627
40	TAF125136	0.4853	0.2332
41	TAF130136	0.3902	0.1838
42	TAF120048	0.2465	0.1160
43	TAF130048	0.6011	0.2715
44	TAF120224	0.7294	0.3655
45	TAF130224	0.3396	0.1641

#	Name	Abs Diff	%Diff
46	EMPTY	0.0735	0.1929
47	EMPTY	0.0275	0.0691
48	TAI130048	0.6780	0.2641
49	TAI130136	0.6851	0.2707
50	TAI130224	0.8694	0.3382
51	TAI130312	0.7390	0.2997
52	TRR130000	4.1170	3.8083
53	TSI000001	0.2797	0.3948
54	TSI000002	5.7678	6.5976
55	TSO000001	0.3731	0.5287
56	TSO000002	0.2314	0.2710
57	TAF020136	0.1120	0.1080
58	TAF120312	1.7437	0.8407
59	TAF130312	0.1069	0.0476
60	EMPTY	0.0006	0.0161
61	EMPTY	0.0007	0.0189
62	EMPTY	0.0005	0.0135
63	EMPTY	0.0013	0.0352
64	EMPTY	0.0033	0.1865
65	EMPTY	0.0032	0.1793
66	EMPTY	0.0036	0.2008
67	EMPTY	0.0049	0.2716
68	EMPTY	0.0063	0.3481
69	EMPTY	0.0057	0.3129
70	EMPTY	0.0070	0.3826
71	EMPTY	0.0071	0.3847
72	EMPTY	0.0084	0.4535
73	EMPTY	0.0082	0.4395
74	EMPTY	0.0086	0.4588
75	EMPTY	0.0088	0.4666
76	EMPTY	0.0091	0.4805
77	EMPTY	0.0083	0.4352
78	EMPTY	0.0081	0.4212
79	EMPTY	0.0094	0.4847
80	PAN020136	0.0000	0.0000
81	PAN050136	0.0733	0.2267
82	PAN070136	0.1068	0.5666
83	PAN080136	0.3265	2.5138
84	PAN090136	0.0061	0.0493
85	PAN100136	0.8163	8.7254
86	PAN105136	0.2700	7.2920
87	PAN110136	0.3036	7.6366
88	PAN115136	0.5249	11.3188
89	PAN120136	0.1709	3.9277
90	PAN125136	0.1571	3.1121
91	PAN130136	0.2671	6.2520
92	PAN120048	0.3891	3.8874
93	PAN130048	0.2060	2.1964
94	PAN120224	0.1129	1.1477
95	PAN130224	0.0885	0.8771
96	PAN120312	0.5401	5.3973
97	PAN130312	0.5371	5.8874
98	PAB000136	0.0723	0.1786
99	PAB100136	0.0687	0.1556
100	PAB125136	0.0504	0.1123

Test: Aug01_06

dif

Date: Wed Aug 1 13:08:25 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1245	0.3098
102	PRV000001	0.0146	0.0742
103	PSR000001	0.0391	0.0869
104	PFM000001	0.1062	4.3326
105	PAN000136	0.2014	0.1566
106	PFM000002	0.0269	1.0949
107	EMPTY	0.0033	206.2500
108	EMPTY	2.5412	51.9482
109	EMPTY	0.0008	66.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.3945	0.3853
113	VPW000002	0.1172	0.0980
114	VPW000003	0.0274	0.0186
115	VPW000004	0.0196	0.0187
116	VPW000005	0.1171	0.0837
117	VPW000006	0.0429	0.0291
118	IPW000001	27.6453	4.8993
119	IPW000002	28.9567	2.2665
120	IPW000003	24.2582	1.8501
121	IPW000004	7.2852	1.8996
122	IPW000005	0.3808	0.1506
123	IPW000006	1.3379	0.5101
124	EMPTY	0.0034	18.5792
125	EMPTY	0.0008	5.9702
126	EMPTY	0.0032	21.9178
127	EMPTY	0.0003	1.8518
128	IHT000001	0.2031	0.1563
129	IHT000002	0.1524	0.1139
130	IHT000003	0.1367	0.1020
131	IHT000004	0.1407	0.1064
132	IHT000005	0.1132	0.0867
133	IHT000006	0.0820	0.0654
134	IHT000007	0.0664	0.0502
135	IHT000008	0.0312	0.0239
136	IHT000009	0.0156	0.0119
137	IHT000010	0.2031	0.1522
138	IHT000011	0.0430	0.0327
139	IHT000012	0.0078	0.0060
140	IHT000013	0.0469	0.0508
141	IHT000014	0.0117	0.0091
142	IHT000015	0.0391	0.0407
143	IHT000016	0.4180	0.4661
144	IHT000017	0.8672	0.8127
145	IHT000018	0.2852	0.2629
146	IHT000019	0.0976	0.0936
147	IHT000020	0.1367	0.1279
148	IHT000021	0.1797	13.4799
149	IHT000022	0.4570	0.4891
150	IHT000023	0.2109	0.1997
151	IHT000024	0.1915	0.2701
152	IHT000025	0.1953	0.1856
153	IHT000026	0.1757	0.1656
154	IHT000027	0.4493	0.4935
155	IHT000028	0.3711	0.4019

Test: Aug01_06 dif Date: Wed Aug 1 13:08:25 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1680	0.1591
157	IHT000030	0.1797	0.1663
158	IHT000031	0.2304	0.2160
159	IHT000032	0.2110	0.1959
160	IHT000033	0.1915	0.1779
161	IHT000034	0.0078	0.0082
162	IHT000035	0.0273	0.0219
163	IHT000036	0.0625	0.0671

Test: Aug01_07

sum1

Date: Wed Aug 1 13:42:24 1990

Page: 1

Velocity 1 = 3.4940 (ft/sec) (+/- 14.0079 %)
Velocity 2 = 3.4999 (ft/sec) (+/- 5.2621 %)
Pressure drop = -4.7883 (psi)
Tsats in = 267.9635 (deg F) Tsats out = 274.3599 (deg F)
Phi inner = 100.9145 (kBtu/hr-ft2) (+/- 1.4122 %)
Phi outer = 100.7280 (kBtu/hr-ft2) (+/- 1.5437 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	79.6516	80.2888	80.0552	1.6757e-01	1.9001e+00
1	TRF000002	80.3140	80.5252	80.3731	9.5797e-02	1.9001e+00
2	TFM000001	87.9002	88.9489	88.3508	2.2047e-01	1.9002e+00
3	TIN000001	87.3681	88.0000	87.6569	1.3244e-01	1.9002e+00
4	TRV000001	88.9931	89.8318	89.3982	1.8665e-01	1.9003e+00
5	TSR000001	159.5001	162.3637	161.1107	8.3159e-01	1.9056e+00
6	TAO020136	78.6223	79.9999	79.3917	3.4434e-01	1.9001e+00
7	TAO050136	209.1251	211.1271	209.9252	4.5851e-01	1.9131e+00
8	TAO070136	222.9469	226.5738	224.4426	6.2104e-01	1.9160e+00
9	TAO080136	243.7678	244.6097	244.2072	2.1382e-01	1.9203e+00
10	TAO090136	252.1467	253.4514	252.8117	2.4554e-01	1.9224e+00
11	TAO100136	251.6685	253.7192	252.7812	4.1005e-01	1.9224e+00
12	TAO105136	257.4885	259.3521	258.4188	4.2868e-01	1.9238e+00
13	TAO110136	266.3473	267.6332	267.1122	2.6729e-01	1.9260e+00
14	TAO115136	264.0372	265.5210	264.8181	3.5550e-01	1.9254e+00
15	TAO120136	278.6429	279.2873	278.9834	1.7458e-01	1.9292e+00
16	TAO125136	172.7416	239.7341	214.0920	1.4429e+01	1.9139e+00
17	TAO130136	268.7448	270.1131	269.4247	3.3246e-01	1.9266e+00
18	TAO120048	110.0353	111.0668	110.5408	2.6525e-01	1.9011e+00
19	TAO130048	280.3902	281.1230	280.7807	1.4689e-01	1.9297e+00
20	TAO120224	273.2227	274.6967	274.0101	3.0319e-01	1.9278e+00
21	TAO130224	260.9424	262.5070	261.6837	3.6830e-01	1.9246e+00
22	TAO120312	280.2188	281.4144	280.8131	2.6361e-01	1.9297e+00
23	TAO130312	275.1663	276.1787	275.7242	2.5503e-01	1.9283e+00
24	TRT020000	199.0361	200.2953	199.6929	3.2463e-01	1.9113e+00
25	TRT070000	242.7417	243.6873	243.1520	2.5740e-01	1.9201e+00
26	TRT100000	276.5587	277.2926	276.9018	1.5842e-01	1.9286e+00
27	TRT120000	285.6187	286.8078	286.3597	2.4112e-01	1.9313e+00
28	TRT125000	288.0103	294.7203	291.3003	1.0735e+00	1.9327e+00
29	TRT130000	282.1253	283.0426	282.5385	1.4847e-01	1.9302e+00
30	EMPTY	39.3761	40.0646	39.7296	1.8670e-01	1.9011e+00
31	TAF050136	143.1554	146.2570	144.2194	6.7139e-01	1.9037e+00
32	TAF070136	164.7979	168.7287	166.9153	6.9101e-01	1.9063e+00
33	TAF080136	240.5949	244.2301	242.6774	8.3142e-01	1.9200e+00
34	TAF090136	94.6219	95.6657	95.1710	2.6725e-01	1.9004e+00
35	TAF100136	197.2711	203.2672	199.4606	1.5364e+00	1.9113e+00
36	TAF105136	201.8218	207.5474	204.4278	1.6318e+00	1.9121e+00
37	TAF110136	207.4316	210.5838	209.1305	7.7645e-01	1.9130e+00
38	TAF115136	213.2858	216.4326	214.8793	6.0975e-01	1.9141e+00
39	TAF120136	259.9521	262.1711	260.8496	5.4828e-01	1.9244e+00
40	TAF125136	225.4265	229.2826	227.2286	8.6486e-01	1.9166e+00
41	TAF130136	230.3401	232.5095	231.7531	4.6003e-01	1.9175e+00
42	TAF120048	231.9441	234.0351	232.7941	5.3450e-01	1.9178e+00
43	TAF130048	243.2236	245.5663	244.1370	5.1395e-01	1.9203e+00
44	TAF120224	215.9219	218.9714	217.2020	6.7646e-01	1.9145e+00
45	TAF130224	224.9478	227.8091	225.8389	5.4562e-01	1.9163e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1308	2.2319e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9821	1.2053e-01	1.9011e+00
48	TAI130048	275.6188	276.8158	276.3351	2.8662e-01	1.9285e+00
49	TAI130136	275.3447	276.2654	275.8109	2.0209e-01	1.9283e+00
50	TAI130224	279.0518	280.3412	279.6872	2.5536e-01	1.9294e+00
51	TAI130312	269.0581	270.5386	269.7376	3.0122e-01	1.9267e+00
52	TRR130000	117.8245	119.8679	118.5293	5.3257e-01	1.9016e+00
53	TSI000001	69.3790	70.1248	69.7263	1.8862e-01	1.9000e+00
54	TSI000002	69.9088	76.4806	72.0381	1.4690e+00	1.9000e+00
55	TSO000001	68.7916	69.6488	69.1923	2.1290e-01	1.9000e+00
56	TSO000002	85.7995	86.7464	86.2601	2.2786e-01	1.9002e+00
57	TAF020136	105.4842	107.7756	106.7447	4.6489e-01	1.9009e+00
58	TAF120312	225.9175	228.1953	226.9447	5.5549e-01	1.9165e+00
59	TAF130312	243.7669	247.6052	246.0616	7.3952e-01	1.9208e+00
60	EMPTY	4.2334	4.2773	4.2574	8.7034e-03	0.0000e+00
61	EMPTY	4.2236	4.2578	4.2415	6.9482e-03	0.0000e+00
62	EMPTY	4.2139	4.2383	4.2263	6.4845e-03	0.0000e+00
63	EMPTY	4.2090	4.2334	4.2193	6.3656e-03	0.0000e+00
64	EMPTY	2.0020	2.0166	2.0078	2.4164e-03	0.0000e+00
65	EMPTY	2.0166	2.0264	2.0216	2.8744e-03	0.0000e+00
66	EMPTY	2.0264	2.0361	2.0288	3.8523e-03	0.0000e+00
67	EMPTY	2.0361	2.0508	2.0397	4.1631e-03	0.0000e+00
68	EMPTY	2.0410	2.0508	2.0453	3.9013e-03	0.0000e+00
69	EMPTY	2.0508	2.0605	2.0557	3.6911e-03	0.0000e+00
70	EMPTY	2.0605	2.0703	2.0636	3.6765e-03	0.0000e+00
71	EMPTY	2.0752	2.0850	2.0780	3.7029e-03	0.0000e+00
72	EMPTY	2.0801	2.0898	2.0838	3.8913e-03	0.0000e+00
73	EMPTY	2.0898	2.1045	2.0953	4.1432e-03	0.0000e+00
74	EMPTY	2.0996	2.1094	2.1039	4.0241e-03	0.0000e+00
75	EMPTY	2.1094	2.1191	2.1136	3.9471e-03	0.0000e+00
76	EMPTY	2.1143	2.1289	2.1204	3.9224e-03	0.0000e+00
77	EMPTY	2.1289	2.1387	2.1321	2.8946e-03	0.0000e+00
78	EMPTY	2.1436	2.1533	2.1474	3.1644e-03	0.0000e+00
79	EMPTY	2.1582	2.1680	2.1630	3.1950e-03	0.0000e+00
80	PAN020136	-19.1394	-16.2402	-16.7422	5.6278e-01	8.7101e-01
81	PAN050136	-37.4057	-31.1496	-35.0437	2.0551e+00	1.6823e+00
82	PAN070136	-25.8662	-12.6674	-21.7479	3.2146e+00	8.7170e-01
83	PAN080136	-14.0028	0.4931	-9.0956	2.8797e+00	8.7030e-01
84	PAN090136	-13.2045	-7.7113	-10.9798	1.5849e+00	8.7043e-01
85	PAN100136	-12.1600	-4.2254	-8.9236	1.5491e+00	8.7029e-01
86	PAN105136	-7.7768	-0.1474	-4.9311	1.3682e+00	8.7009e-01
87	PAN110136	-7.3615	-2.3261	-4.5417	1.0611e+00	8.7007e-01
88	PAN115136	-5.8474	-3.9400	-4.7610	3.7647e-01	8.7008e-01
89	PAN120136	-5.9487	-4.6517	-5.2529	3.2539e-01	8.7010e-01
90	PAN125136	-5.6538	-3.4413	-4.7749	4.4759e-01	8.7008e-01
91	PAN130136	-5.3251	-4.1807	-4.8857	2.2419e-01	8.7009e-01
92	PAN120048	-12.0279	-9.3576	-10.5951	5.6849e-01	8.7040e-01
93	PAN130048	-9.8887	-7.3710	-9.2814	4.2575e-01	8.7031e-01
94	PAN120224	-10.9480	-6.9807	-9.3717	6.2318e-01	8.7032e-01
95	PAN130224	-10.6208	-8.2557	-10.0120	4.2951e-01	8.7036e-01
96	PAN120312	-11.0185	-8.7297	-10.0145	4.7367e-01	8.7036e-01
97	PAN130312	-10.0003	-8.4744	-9.4433	3.5760e-01	8.7032e-01
98	PAB000136	40.2518	40.4806	40.4010	5.2974e-02	5.8873e-01
99	PAB100136	43.8505	44.2167	44.1087	6.5238e-02	5.9039e-01
100	PAB125136	44.8400	45.0231	44.9361	5.0865e-02	5.9078e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1358	40.3800	40.3092	7.0146e-02	7.5674e-01
102	PRV000001	19.6068	19.7289	19.6337	5.1081e-02	7.5160e-01
103	PSR000001	45.1218	45.3660	45.1511	5.8152e-02	7.5845e-01
104	PFM000001	1.7060	1.8891	1.7975	7.3986e-02	5.0002e-01
105	PAN000136	-135.0660	-131.4039	-132.5666	6.5532e-01	4.9311e+00
106	PFM000002	1.7796	1.8468	1.8038	1.6314e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0008	4.1102e-03	0.0000e+00
108	EMPTY	-9.9316	-5.8008	-6.3731	7.1759e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0004	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	102.2724	102.6630	102.3857	1.1897e-01	1.0166e+00
113	VPW000002	119.2721	119.6627	119.5611	1.0617e-01	1.0820e+00
114	VPW000003	146.9276	147.3182	147.0956	1.2484e-01	1.1979e+00
115	VPW000004	104.7889	105.1795	105.0155	9.9512e-02	1.0262e+00
116	VPW000005	139.7424	140.1330	139.9728	1.0206e-01	1.1668e+00
117	VPW000006	147.5698	148.1558	147.8433	1.5282e-01	1.2012e+00
118	IPW000001	540.8367	548.6461	544.5071	1.7480e+00	9.1714e+00
119	IPW000002	1295.1174	1302.9225	1298.3568	1.8326e+00	1.3070e+01
120	IPW000003	1324.8374	1330.6874	1327.7239	1.1976e+00	1.3253e+01
121	IPW000004	381.5354	383.0003	382.3166	3.5568e-01	3.6225e+00
122	IPW000005	252.8199	254.2846	253.4839	2.9194e-01	2.8302e+00
123	IPW000006	263.3057	264.7705	264.0479	3.5895e-01	2.8899e+00
124	EMPTY	-0.0293	-0.0098	-0.0210	4.2142e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	3.0897e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0158	3.7642e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	3.2718e-03	0.0000e+00
128	IHT000001	128.3091	131.0434	129.7270	6.3725e-01	4.3003e+00
129	IHT000002	132.1890	134.9234	133.5132	5.5983e-01	4.3119e+00
130	IHT000003	132.5308	135.2652	133.7339	5.6821e-01	4.3126e+00
131	IHT000004	130.8519	133.3909	131.9183	5.8422e-01	4.3070e+00
132	IHT000005	129.4809	131.8247	130.4302	5.3381e-01	4.3025e+00
133	IHT000006	124.1587	126.3071	125.2524	5.4960e-01	4.2871e+00
134	IHT000007	131.3852	133.5337	132.2954	5.4335e-01	4.3082e+00
135	IHT000008	129.7251	131.8735	130.8071	5.3990e-01	4.3036e+00
136	IHT000009	130.0518	132.5909	131.2744	5.5777e-01	4.3050e+00
137	IHT000010	132.2791	134.4276	133.2557	4.6689e-01	4.3111e+00
138	IHT000011	130.7505	132.8989	131.5473	4.7489e-01	4.3059e+00
139	IHT000012	128.1551	130.4988	129.1942	4.7587e-01	4.2987e+00
140	IHT000013	91.1546	93.4983	92.0999	5.4155e-01	4.2022e+00
141	IHT000014	127.5391	129.8828	128.5078	5.1744e-01	4.2967e+00
142	IHT000015	94.8730	97.0215	95.9277	5.1599e-01	4.2107e+00
143	IHT000016	88.5367	90.8804	89.5718	5.3416e-01	4.1967e+00
144	IHT000017	105.1157	108.8266	106.9048	8.1381e-01	4.2371e+00
145	IHT000018	107.0538	110.3741	108.5889	6.2641e-01	4.2414e+00
146	IHT000019	102.9710	105.5101	104.3929	5.5809e-01	4.2308e+00
147	IHT000020	105.2171	107.7561	106.8460	5.3903e-01	4.2369e+00
148	IHT000021	-3.1964	-0.0714	-1.3370	6.6992e-01	4.1000e+00
149	IHT000022	91.9959	94.3397	93.2772	4.7868e-01	4.2048e+00
150	IHT000023	103.8762	106.6106	105.4582	5.1637e-01	4.2335e+00
151	IHT000024	69.2496	71.7886	70.7730	5.1750e-01	4.1606e+00
152	IHT000025	103.7185	106.4528	105.1755	5.2528e-01	4.2328e+00
153	IHT000026	104.7138	107.0575	106.0068	5.3363e-01	4.2348e+00
154	IHT000027	89.8100	91.9584	90.9272	4.9606e-01	4.1996e+00
155	IHT000028	91.1584	93.8927	92.3146	5.7023e-01	4.2026e+00

Test: Aug01_07

sum1

Date: Wed Aug 1 13:42:24 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	107.3392	105.6635	5.4260e-01	4.2340e+00
157	IHT000030	107.0162	109.3600	108.0241	5.0588e-01	4.2399e+00
158	IHT000031	105.5176	107.8613	106.5566	4.9825e-01	4.2362e+00
159	IHT000032	106.5430	108.8867	107.5938	5.1432e-01	4.2388e+00
160	IHT000033	106.3476	108.8867	107.5430	5.3034e-01	4.2387e+00
161	IHT000034	93.7124	95.6656	94.4312	4.2027e-01	4.2073e+00
162	IHT000035	123.8957	125.4582	124.4699	4.0895e-01	4.2848e+00
163	IHT000036	92.5856	94.1481	93.1247	4.0155e-01	4.2044e+00

Test: Aug01_07

sum2

Date: Wed Aug 1 13:42:24 1990

Page: 1

Velocity 1 = 3.4539 (ft/sec) (+/- 14.3393 %)
 Velocity 2 = 3.4655 (ft/sec) (+/- 5.3592 %)
 Pressure drop = -4.7893 (psi)
 Tsat in = 267.7305 (deg F) Tsat out = 274.1421 (deg F)
 Phi inner = 99.8850 (kBtu/hr-ft2) (+/- 1.4151 %)
 Phi outer = 100.5141 (kBtu/hr-ft2) (+/- 1.5432 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	79.8640	80.7135	80.2633	2.0414e-01	1.9001e+00
1	TRF000002	80.3140	80.9475	80.5379	1.6196e-01	1.9001e+00
2	TFM000001	87.9002	88.7402	88.3307	2.0683e-01	1.9002e+00
3	TIN000001	87.3683	87.8955	87.6193	1.4408e-01	1.9002e+00
4	TRV000001	88.9946	89.8332	89.4663	2.0439e-01	1.9003e+00
5	TSR000001	162.2660	164.4381	162.9835	4.8253e-01	1.9058e+00
6	TAO020136	77.8799	83.9109	80.8054	1.5233e+00	1.9001e+00
7	TAO050136	209.0303	211.2256	209.9572	5.3660e-01	1.9132e+00
8	TAO070136	223.8070	226.3831	224.8660	5.7990e-01	1.9161e+00
9	TAO080136	244.2346	245.2632	244.7233	2.4939e-01	1.9205e+00
10	TAO090136	252.7065	253.8246	253.2558	2.6574e-01	1.9225e+00
11	TAO100136	252.4142	254.2770	253.5123	4.3669e-01	1.9226e+00
12	TAO105136	258.4208	260.0047	259.3021	3.8666e-01	1.9240e+00
13	TAO110136	266.8976	268.0020	267.4442	2.9779e-01	1.9261e+00
14	TAO115136	264.6868	266.1705	265.3414	3.4513e-01	1.9255e+00
15	TAO120136	279.2863	280.2984	279.6640	2.5828e-01	1.9294e+00
16	TAO125136	179.3067	221.4112	198.1357	9.2614e+00	1.9110e+00
17	TAO130136	269.4774	271.0262	270.0833	3.2501e-01	1.9268e+00
18	TAO120048	111.5810	112.8171	112.2752	3.3536e-01	1.9012e+00
19	TAO130048	280.8483	281.5822	281.1512	1.9205e-01	1.9298e+00
20	TAO120224	273.4997	275.2497	274.5964	3.0767e-01	1.9280e+00
21	TAO130224	261.1264	262.9696	262.1051	4.0488e-01	1.9247e+00
22	TAO120312	280.8624	281.5987	281.2069	2.2741e-01	1.9298e+00
23	TAO130312	275.7188	276.7305	276.1843	2.0476e-01	1.9284e+00
24	TRT020000	199.1332	200.5859	199.9215	3.8186e-01	1.9113e+00
25	TRT070000	242.8364	244.2531	243.5332	2.5310e-01	1.9202e+00
26	TRT100000	276.9257	277.7531	277.3248	2.0224e-01	1.9287e+00
27	TRT120000	286.1673	287.2661	286.6859	2.4986e-01	1.9314e+00
28	TRT125000	291.0956	292.0059	291.5126	2.0893e-01	1.9328e+00
29	TRT130000	282.6758	283.4094	283.0407	1.7927e-01	1.9303e+00
30	EMPTY	39.3761	40.2940	39.8398	2.4749e-01	1.9011e+00
31	TAF050136	143.0557	145.6586	144.1966	5.6126e-01	1.9037e+00
32	TAF070136	165.6843	168.9250	167.2509	7.0966e-01	1.9064e+00
33	TAF080136	239.9450	244.3240	242.7537	9.4927e-01	1.9200e+00
34	TAF090136	95.1434	96.2918	95.7261	3.1768e-01	1.9004e+00
35	TAF100136	197.7554	202.8809	199.6584	1.3692e+00	1.9113e+00
36	TAF105136	202.4892	208.2132	203.9148	9.6864e-01	1.9120e+00
37	TAF110136	207.9084	211.3487	209.2540	6.8292e-01	1.9130e+00
38	TAF115136	214.3365	218.2412	215.3568	6.4680e-01	1.9142e+00
39	TAF120136	259.3071	262.7280	261.2353	6.2980e-01	1.9245e+00
40	TAF125136	226.4631	229.0068	227.7345	6.7146e-01	1.9167e+00
41	TAF130136	231.1889	233.5474	232.2933	5.3661e-01	1.9177e+00
42	TAF120048	232.0386	233.9393	233.1738	4.3758e-01	1.9179e+00
43	TAF130048	243.5998	245.4741	244.5574	5.0608e-01	1.9204e+00
44	TAF120224	216.1142	219.2591	217.5192	5.8907e-01	1.9146e+00
45	TAF130224	225.1382	227.6180	226.1247	5.1366e-01	1.9164e+00

Test: Aug01_07

sum2

Date: Wed Aug 1 13:42:24 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1354	2.1786e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9821	1.1126e-01	1.9011e+00
48	TAI130048	275.8951	277.6449	276.7776	3.5059e-01	1.9286e+00
49	TAI130136	275.8056	276.7260	276.2378	2.6877e-01	1.9284e+00
50	TAI130224	279.6041	280.7095	280.0963	2.5147e-01	1.9295e+00
51	TAI130312	269.8910	271.5561	270.4223	4.0241e-01	1.9269e+00
52	TRR130000	117.2112	121.2968	119.0896	1.2073e+00	1.9016e+00
53	TSI000001	69.0609	70.0194	69.5530	1.9964e-01	1.9000e+00
54	TSI000002	69.8043	75.6346	72.3531	1.4177e+00	1.9000e+00
55	TSO000001	68.4700	69.6471	69.0246	2.6015e-01	1.9000e+00
56	TSO000002	85.7995	86.8519	86.2058	2.2000e-01	1.9002e+00
57	TAF020136	105.2757	107.8776	106.5773	4.8020e-01	1.9009e+00
58	TAF120312	226.0129	228.4800	227.2980	6.2934e-01	1.9166e+00
59	TAF130312	244.8920	249.6609	246.6422	8.3697e-01	1.9209e+00
60	EMPTY	4.2529	4.2969	4.2663	1.1538e-02	0.0000e+00
61	EMPTY	4.2383	4.2676	4.2494	8.0166e-03	0.0000e+00
62	EMPTY	4.2236	4.2432	4.2323	6.1042e-03	0.0000e+00
63	EMPTY	4.2139	4.2334	4.2238	4.8287e-03	0.0000e+00
64	EMPTY	2.0068	2.0117	2.0082	2.2146e-03	0.0000e+00
65	EMPTY	2.0166	2.0264	2.0217	1.6972e-03	0.0000e+00
66	EMPTY	2.0264	2.0313	2.0280	2.3365e-03	0.0000e+00
67	EMPTY	2.0361	2.0410	2.0383	2.4484e-03	0.0000e+00
68	EMPTY	2.0410	2.0459	2.0448	2.0432e-03	0.0000e+00
69	EMPTY	2.0508	2.0557	2.0544	2.1635e-03	0.0000e+00
70	EMPTY	2.0557	2.0605	2.0604	6.9053e-04	0.0000e+00
71	EMPTY	2.0752	2.0801	2.0753	6.9053e-04	0.0000e+00
72	EMPTY	2.0801	2.0850	2.0805	1.3381e-03	0.0000e+00
73	EMPTY	2.0898	2.0947	2.0938	1.8950e-03	0.0000e+00
74	EMPTY	2.0996	2.1045	2.1000	1.3381e-03	0.0000e+00
75	EMPTY	2.1094	2.1143	2.1098	1.3381e-03	0.0000e+00
76	EMPTY	2.1143	2.1191	2.1170	2.4484e-03	0.0000e+00
77	EMPTY	2.1240	2.1338	2.1288	1.2041e-03	0.0000e+00
78	EMPTY	2.1436	2.1484	2.1437	6.9053e-04	0.0000e+00
79	EMPTY	2.1582	2.1631	2.1588	1.6028e-03	0.0000e+00
80	PAN020136	-19.8260	-16.3165	-16.8872	7.1074e-01	8.7102e-01
81	PAN050136	-38.1686	-31.1496	-35.5716	1.9300e+00	1.6824e+00
82	PAN070136	-25.8662	-14.3458	-21.2382	2.5857e+00	8.7162e-01
83	PAN080136	-14.0028	-2.8639	-10.1438	2.1170e+00	8.7037e-01
84	PAN090136	-13.1282	-6.7958	-9.8109	1.2859e+00	8.7035e-01
85	PAN100136	-12.1600	-5.3698	-9.5171	1.0854e+00	8.7033e-01
86	PAN105136	-7.7005	-3.6570	-5.0974	8.2108e-01	8.7009e-01
87	PAN110136	-5.3016	-3.0891	-4.2197	4.9533e-01	8.7006e-01
88	PAN115136	-6.4577	-3.4823	-4.9639	5.3330e-01	8.7009e-01
89	PAN120136	-5.5672	-3.5073	-4.9401	4.1368e-01	8.7009e-01
90	PAN125136	-5.7301	-3.4413	-4.8192	4.0938e-01	8.7008e-01
91	PAN130136	-5.4014	-4.2570	-4.9330	2.3929e-01	8.7009e-01
92	PAN120048	-11.9516	-9.1288	-10.5112	4.7274e-01	8.7040e-01
93	PAN130048	-9.8124	-7.5999	-9.4477	4.1597e-01	8.7032e-01
94	PAN120224	-12.3975	-7.7436	-9.4068	6.7293e-01	8.7032e-01
95	PAN130224	-10.6208	-8.8660	-10.0394	4.4988e-01	8.7036e-01
96	PAN120312	-11.5526	-8.8823	-9.9260	4.8802e-01	8.7035e-01
97	PAN130312	-10.3817	-8.1692	-9.5257	3.7859e-01	8.7033e-01
98	PAB000136	40.1144	40.3433	40.2435	5.1234e-02	5.8866e-01
99	PAB100136	43.8963	44.1252	43.9723	5.1996e-02	5.9033e-01
100	PAB125136	44.7026	44.8857	44.7750	4.7238e-02	5.9070e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7696	40.1358	39.9796	1.2585e-01	7.5663e-01
102	PRV0000001	19.6068	19.7289	19.7167	3.6993e-02	7.5162e-01
103	PSR0000001	44.8777	45.1218	44.9753	6.5249e-02	7.5838e-01
104	PFM0000001	1.6144	1.8891	1.7554	6.4632e-02	5.0002e-01
105	PAN000136	-136.8970	-130.9461	-132.5940	8.4761e-01	4.9312e+00
106	PFM0000002	1.7125	1.8132	1.7676	2.4921e-02	2.0005e-01
107	EMPTY	-0.0049	0.0049	-0.0005	3.9766e-03	0.0000e+00
108	EMPTY	-10.0000	-5.8740	-7.5603	1.1470e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	101.1005	102.8583	102.0771	4.8808e-01	1.0155e+00
113	VPW0000002	118.8815	120.0533	119.5962	2.5453e-01	1.0821e+00
114	VPW0000003	146.1463	147.7088	147.0409	3.1093e-01	1.1977e+00
115	VPW0000004	104.0077	105.5702	104.8748	4.0078e-01	1.0257e+00
116	VPW0000005	138.7658	140.7189	139.8673	4.8610e-01	1.1663e+00
117	VPW0000006	146.7886	148.5464	147.6402	4.8127e-01	1.2003e+00
118	IPW0000001	548.6461	562.3125	556.3774	3.4377e+00	9.2157e+00
119	IPW0000002	1281.4586	1295.1174	1289.3807	2.9608e+00	1.3014e+01
120	IPW0000003	1311.1874	1322.8875	1314.9314	3.1230e+00	1.3173e+01
121	IPW0000004	374.6995	382.0237	379.1232	1.7211e+00	3.6015e+00
122	IPW0000005	249.8905	253.7964	251.9900	9.9741e-01	2.8219e+00
123	IPW0000006	259.3994	263.3057	261.4502	1.0108e+00	2.8751e+00
124	EMPTY	-0.0293	-0.0146	-0.0205	3.9459e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.8523e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.3901e-03	0.0000e+00
128	IHT0000001	128.6997	130.8481	129.6567	5.1938e-01	4.3001e+00
129	IHT0000002	132.5796	134.9234	133.4507	5.0872e-01	4.3117e+00
130	IHT0000003	132.9214	135.2652	133.7495	5.5882e-01	4.3126e+00
131	IHT0000004	130.8519	133.5863	131.8832	6.1894e-01	4.3069e+00
132	IHT0000005	129.4809	131.8247	130.3598	5.7892e-01	4.3023e+00
133	IHT0000006	124.3540	126.5024	125.2173	5.2362e-01	4.2869e+00
134	IHT0000007	131.3852	133.5337	132.2407	4.7824e-01	4.3080e+00
135	IHT0000008	130.1157	131.8735	130.7290	4.4819e-01	4.3034e+00
136	IHT0000009	130.4425	132.5909	131.2588	5.1250e-01	4.3050e+00
137	IHT0000010	132.0838	134.2323	133.1581	6.3534e-01	4.3108e+00
138	IHT0000011	130.1645	132.5083	131.3520	6.9345e-01	4.3053e+00
139	IHT0000012	127.5691	130.3035	129.1356	7.3238e-01	4.2986e+00
140	IHT0000013	90.7640	93.4983	92.0804	6.9117e-01	4.2021e+00
141	IHT0000014	127.1484	130.0781	128.4570	7.4373e-01	4.2965e+00
142	IHT0000015	94.6777	97.4121	95.8105	6.8003e-01	4.2105e+00
143	IHT0000016	88.1460	90.6851	89.2749	6.7921e-01	4.1961e+00
144	IHT0000017	104.7251	107.8501	106.3423	6.9591e-01	4.2357e+00
145	IHT0000018	107.2491	109.5928	108.4092	5.2853e-01	4.2409e+00
146	IHT0000019	103.1663	105.3148	104.3616	5.6859e-01	4.2307e+00
147	IHT0000020	105.6077	107.9515	106.8304	5.5497e-01	4.2369e+00
148	IHT0000021	-2.8057	-0.0714	-1.3487	6.5698e-01	4.1000e+00
149	IHT0000022	91.9959	94.3397	92.9920	6.3042e-01	4.2041e+00
150	IHT0000023	104.4621	106.4153	105.5090	5.2164e-01	4.2336e+00
151	IHT0000024	69.6402	71.7886	70.7613	5.0503e-01	4.1606e+00
152	IHT0000025	104.1091	106.2575	105.1637	5.2645e-01	4.2327e+00
153	IHT0000026	105.1044	107.0575	105.9521	4.6790e-01	4.2347e+00
154	IHT0000027	89.4193	91.9584	90.5287	6.1693e-01	4.1988e+00
155	IHT0000028	90.5724	94.0881	92.0256	8.0786e-01	4.2020e+00

Test: Aug01_07

sum2

Date: Wed Aug 1 13:42:24 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.4095	107.1439	105.6518	6.6235e-01	4.2339e+00
157	IHT000030	106.8209	109.5553	108.0592	6.7613e-01	4.2400e+00
158	IHT000031	105.3223	108.2520	106.5723	6.5197e-01	4.2362e+00
159	IHT000032	106.3477	109.4727	107.6055	6.7331e-01	4.2389e+00
160	IHT000033	106.3476	109.4726	107.5391	6.5703e-01	4.2387e+00
161	IHT000034	93.3218	95.8609	94.3257	6.3382e-01	4.2071e+00
162	IHT000035	123.1145	126.2395	124.4543	6.8913e-01	4.2847e+00
163	IHT000036	91.8044	94.3435	92.9763	6.3135e-01	4.2041e+00

Test: Aug01_07 dif Date: Wed Aug 1 13:42:24 1990 Page: 1

Velocity 1 = 0.040100 (ft/sec)
Velocity 2 = 0.034400 (ft/sec)
Pressure Drop = 0.001000 (psi)
Tsat in = 0.233002 (deg F) Tsat out = 0.217804 (deg F)
Phi inner = 1.029495 (kBtu/hr-ft2) Phi outer = 0.213898 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.2081	0.2599
1	TRF000002	0.1648	0.2050
2	TFM000001	0.0201	0.0227
3	TIN000001	0.0376	0.0429
4	TRV000001	0.0681	0.0762
5	TSR000001	1.8728	1.1624
6	TAO020136	1.4137	1.7807
7	TAO050136	0.0320	0.0152
8	TAO070136	0.4234	0.1886
9	TAO080136	0.5161	0.2113
10	TAO090136	0.4441	0.1757
11	TAO100136	0.7311	0.2892
12	TAO105136	0.8833	0.3418
13	TAO110136	0.3320	0.1243
14	TAO115136	0.5233	0.1976
15	TAO120136	0.6806	0.2440
16	TAO125136	15.9563	7.4530
17	TAO130136	0.6586	0.2444
18	TAO120048	1.7344	1.5690
19	TAO130048	0.3705	0.1320
20	TAO120224	0.5863	0.2140
21	TAO130224	0.4214	0.1610
22	TAO120312	0.3938	0.1402
23	TAO130312	0.4601	0.1669
24	TRT020000	0.2286	0.1145
25	TRT070000	0.3812	0.1568
26	TRT100000	0.4230	0.1528
27	TRT120000	0.3262	0.1139
28	TRT125000	0.2123	0.0729
29	TRT130000	0.5022	0.1777
30	EMPTY	0.1102	0.2774
31	TAF050136	0.0228	0.0158
32	TAF070136	0.3356	0.2011
33	TAF080136	0.0763	0.0314
34	TAF090136	0.5551	0.5833
35	TAF100136	0.1978	0.0992
36	TAF105136	0.5130	0.2509
37	TAF110136	0.1235	0.0591
38	TAF115136	0.4775	0.2222
39	TAF120136	0.3857	0.1479
40	TAF125136	0.5059	0.2226
41	TAF130136	0.5402	0.2331
42	TAF120048	0.3797	0.1631
43	TAF130048	0.4204	0.1722
44	TAF120224	0.3172	0.1460
45	TAF130224	0.2858	0.1265

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0000	0.0000
48	TAI130048	0.4425	0.1601
49	TAI130136	0.4269	0.1548
50	TAI130224	0.4091	0.1463
51	TAI130312	0.6847	0.2538
52	TRR130000	0.5603	0.4727
53	TSI000001	0.1733	0.2485
54	TSI000002	0.3150	0.4373
55	TSO000001	0.1677	0.2424
56	TSO000002	0.0543	0.0629
57	TAF020136	0.1674	0.1568
58	TAF120312	0.3533	0.1557
59	TAF130312	0.5806	0.2360
60	EMPTY	0.0089	0.2091
61	EMPTY	0.0079	0.1863
62	EMPTY	0.0060	0.1420
63	EMPTY	0.0045	0.1067
64	EMPTY	0.0004	0.0199
65	EMPTY	0.0001	0.0049
66	EMPTY	0.0008	0.0394
67	EMPTY	0.0014	0.0686
68	EMPTY	0.0005	0.0244
69	EMPTY	0.0013	0.0632
70	EMPTY	0.0032	0.1551
71	EMPTY	0.0027	0.1299
72	EMPTY	0.0033	0.1584
73	EMPTY	0.0015	0.0716
74	EMPTY	0.0039	0.1854
75	EMPTY	0.0038	0.1798
76	EMPTY	0.0034	0.1603
77	EMPTY	0.0033	0.1548
78	EMPTY	0.0037	0.1723
79	EMPTY	0.0042	0.1942
80	PAN020136	0.1450	0.8661
81	PAN050136	0.5279	1.5064
82	PAN070136	0.5097	2.3437
83	PAN080136	1.0482	11.5243
84	PAN090136	1.1689	10.6459
85	PAN100136	0.5935	6.6509
86	PAN105136	0.1663	3.3725
87	PAN110136	0.3220	7.0899
88	PAN115136	0.2029	4.2617
89	PAN120136	0.3128	5.9548
90	PAN125136	0.0443	0.9278
91	PAN130136	0.0473	0.9681
92	PAN120048	0.0839	0.7919
93	PAN130048	0.1663	1.7918
94	PAN120224	0.0351	0.3745
95	PAN130224	0.0274	0.2737
96	PAN120312	0.0885	0.8837
97	PAN130312	0.0824	0.8726
98	PAB000136	0.1575	0.3898
99	PAB100136	0.1364	0.3092
100	PAB125136	0.1611	0.3585

Test: Aug01_07

dif

Date: Wed Aug 1 13:42:24 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN0000001	0.3296	0.8177
102	PRV0000001	0.0830	0.4227
103	PSR0000001	0.1758	0.3894
104	PFM0000001	0.0421	2.3421
105	PAN000136	0.0274	0.0207
106	PFM0000002	0.0362	2.0069
107	EMPTY	0.0003	37.5000
108	EMPTY	1.1872	18.6283
109	EMPTY	0.0005	125.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW0000001	0.3086	0.3014
113	VPW0000002	0.0351	0.0294
114	VPW0000003	0.0547	0.0372
115	VPW0000004	0.1407	0.1340
116	VPW0000005	0.1055	0.0754
117	VPW0000006	0.2031	0.1374
118	IPW0000001	11.8703	2.1800
119	IPW0000002	8.9761	0.6913
120	IPW0000003	12.7925	0.9635
121	IPW0000004	3.1934	0.8353
122	IPW0000005	1.4939	0.5893
123	IPW0000006	2.5977	0.9838
124	EMPTY	0.0005	2.3809
125	EMPTY	0.0003	2.2388
126	EMPTY	0.0003	1.8987
127	EMPTY	0.0003	1.9231
128	IHT0000001	0.0703	0.0542
129	IHT0000002	0.0625	0.0468
130	IHT0000003	0.0156	0.0117
131	IHT0000004	0.0351	0.0266
132	IHT0000005	0.0704	0.0540
133	IHT0000006	0.0351	0.0280
134	IHT0000007	0.0547	0.0413
135	IHT0000008	0.0781	0.0597
136	IHT0000009	0.0156	0.0119
137	IHT0000010	0.0976	0.0733
138	IHT0000011	0.1953	0.1485
139	IHT0000012	0.0586	0.0454
140	IHT0000013	0.0195	0.0212
141	IHT0000014	0.0508	0.0395
142	IHT0000015	0.1172	0.1222
143	IHT0000016	0.2969	0.3315
144	IHT0000017	0.5625	0.5262
145	IHT0000018	0.1797	0.1655
146	IHT0000019	0.0313	0.0300
147	IHT0000020	0.0156	0.0146
148	IHT0000021	0.0117	0.8751
149	IHT0000022	0.2852	0.3058
150	IHT0000023	0.0508	0.0482
151	IHT0000024	0.0117	0.0165
152	IHT0000025	0.0118	0.0112
153	IHT0000026	0.0547	0.0516
154	IHT0000027	0.3985	0.4383
155	IHT0000028	0.2890	0.3131

Test: Aug01_07 dif Date: Wed Aug 1 13:42:24 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0117	0.0111
157	IHT000030	0.0351	0.0325
158	IHT000031	0.0157	0.0147
159	IHT000032	0.0117	0.0109
160	IHT000033	0.0039	0.0036
161	IHT000034	0.1055	0.1117
162	IHT000035	0.0156	0.0125
163	IHT000036	0.1484	0.1594

Test: Aug01_08

sum1

Date: Wed Aug 1 13:55:52 1990

Page: 1

Velocity 1 = 3.2735 (ft/sec) (+/- 15.9876 %)
Velocity 2 = 3.2944 (ft/sec) (+/- 5.8917 %)
Pressure drop = -4.8257 (psi)
Tsat in = 267.8959 (deg F) Tsat out = 274.5080 (deg F)
Phi inner = 101.0104 (kBtu/hr-ft2) (+/- 1.4119 %)
Phi outer = 100.9008 (kBtu/hr-ft2) (+/- 1.5432 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.0764	80.7135	80.4799	1.8326e-01	1.9001e+00
1	TRF000002	80.5252	80.9475	80.7955	1.2096e-01	1.9001e+00
2	TFM000001	87.4819	88.2170	87.8452	1.9677e-01	1.9002e+00
3	TIN000001	86.8428	87.3695	87.1651	1.2664e-01	1.9002e+00
4	TRV000001	88.7871	89.5211	89.1421	1.9363e-01	1.9002e+00
5	TSR000001	163.3544	166.3093	164.9915	7.2080e-01	1.9061e+00
6	TAO020136	79.2584	81.6927	80.0866	4.5802e-01	1.9001e+00
7	TAO050136	212.0830	214.1733	213.0174	3.7889e-01	1.9137e+00
8	TAO070136	222.9461	225.5237	224.1554	5.9774e-01	1.9159e+00
9	TAO080136	248.6137	249.6369	249.1410	2.1170e-01	1.9215e+00
10	TAO090136	257.7275	258.8428	258.4252	2.6890e-01	1.9238e+00
11	TAC100136	256.8830	259.4834	258.3117	4.8059e-01	1.9237e+00
12	TAO105136	263.6305	265.6735	264.4944	4.5997e-01	1.9253e+00
13	TAO110136	272.4852	273.8593	273.1575	3.6543e-01	1.9276e+00
14	TAO115136	269.4106	271.3521	270.2889	4.3048e-01	1.9268e+00
15	TAO120136	283.6925	284.7938	284.2672	2.4285e-01	1.9307e+00
16	TAO125136	183.9922	218.3680	199.7244	9.5077e+00	1.9113e+00
17	TAO130136	274.1212	275.3037	274.7105	2.8170e-01	1.9280e+00
18	TAO120048	112.5079	113.7430	113.1975	2.9927e-01	1.9013e+00
19	TAO130048	284.8696	285.8732	285.3859	2.1722e-01	1.9310e+00
20	TAO120224	278.6529	280.0317	279.4453	2.7143e-01	1.9293e+00
21	TAO130224	266.4550	268.1070	267.3983	3.6482e-01	1.9261e+00
22	TAO120312	283.9857	285.1792	284.7149	2.3844e-01	1.9308e+00
23	TAO130312	279.8482	280.7651	280.4255	2.1386e-01	1.9296e+00
24	TRT020000	203.0028	204.2586	203.5461	3.3796e-01	1.9120e+00
25	TRT070000	248.0267	249.2506	248.6125	3.2645e-01	1.9214e+00
26	TRT100000	281.2338	281.9669	281.5659	1.6760e-01	1.9299e+00
27	TRT120000	289.4577	290.4619	290.0435	2.0475e-01	1.9323e+00
28	TRT125000	294.4514	295.3584	294.9324	2.0520e-01	1.9338e+00
29	TRT130000	286.5141	287.2467	286.9118	1.6394e-01	1.9314e+00
30	EMPTY	39.3761	40.2940	39.8398	2.0468e-01	1.9011e+00
31	TAF050136	145.2606	148.8538	146.4778	6.5160e-01	1.9039e+00
32	TAF070136	169.1250	171.8670	170.5377	6.2755e-01	1.9068e+00
33	TAF080136	246.8377	251.0134	249.0599	9.8524e-01	1.9215e+00
34	TAF090136	96.8115	97.8538	97.4264	2.4288e-01	1.9005e+00
35	TAF100136	202.3019	208.5664	205.4208	1.7033e+00	1.9123e+00
36	TAF105136	207.6461	213.3521	210.2016	1.4560e+00	1.9132e+00
37	TAF110136	213.8293	217.3509	215.3087	8.7817e-01	1.9142e+00
38	TAF115136	220.5235	223.3713	222.0260	5.7223e-01	1.9155e+00
39	TAF120136	265.4955	266.9695	266.1045	3.5915e-01	1.9257e+00
40	TAF125136	233.9760	237.3434	235.4416	7.7414e-01	1.9184e+00
41	TAF130136	236.4663	239.5672	237.8820	6.1390e-01	1.9189e+00
42	TAF120048	238.4940	240.1985	239.4882	3.4718e-01	1.9193e+00
43	TAF130048	251.7342	253.9718	252.5833	4.8068e-01	1.9223e+00
44	TAF120224	222.0171	224.0117	223.0331	5.3489e-01	1.9157e+00
45	TAF130224	231.0447	233.0400	232.0694	4.3451e-01	1.9176e+00

Test: Aug01_08

sum1

Date: Wed Aug 1 13:55:52 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.1890e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	39.9729	1.4660e-01	1.9011e+00
48	TAI130048	277.9200	279.0249	278.5223	3.0553e-01	1.9291e+00
49	TAI130136	280.1155	281.2168	280.5877	2.3802e-01	1.9296e+00
50	TAI130224	282.7329	284.1119	283.3640	3.2538e-01	1.9304e+00
51	TAI130312	274.5102	275.8948	275.3614	3.3670e-01	1.9282e+00
52	TRR130000	119.1544	122.8255	120.4421	8.9890e-01	1.9017e+00
53	TSI000001	68.8487	69.5954	69.2608	1.6547e-01	1.9000e+00
54	TSI000002	68.9532	77.3280	71.9891	1.5582e+00	1.9000e+00
55	TSO000001	68.2544	69.1114	68.7024	2.1497e-01	1.9000e+00
56	TSO000002	86.0098	86.9570	86.4461	2.0060e-01	1.9002e+00
57	TAF020136	106.3160	108.6054	107.2676	5.1119e-01	1.9009e+00
58	TAF120312	232.6443	235.1007	233.9921	5.6156e-01	1.9180e+00
59	TAF130312	256.0886	258.2270	257.1989	5.6810e-01	1.9235e+00
60	EMPTY	4.5215	4.5459	4.5353	6.7406e-03	0.0000e+00
61	EMPTY	4.5068	4.5264	4.5169	5.0696e-03	0.0000e+00
62	EMPTY	4.4873	4.5068	4.4978	4.8337e-03	0.0000e+00
63	EMPTY	4.4824	4.4971	4.4896	4.5432e-03	0.0000e+00
64	EMPTY	2.1240	2.1338	2.1266	2.6543e-03	0.0000e+00
65	EMPTY	2.1338	2.1436	2.1391	2.9330e-03	0.0000e+00
66	EMPTY	2.1387	2.1484	2.1457	2.6396e-03	0.0000e+00
67	EMPTY	2.1436	2.1582	2.1553	2.9594e-03	0.0000e+00
68	EMPTY	2.1533	2.1631	2.1607	2.6543e-03	0.0000e+00
69	EMPTY	2.1680	2.1729	2.1703	2.4642e-03	0.0000e+00
70	EMPTY	2.1729	2.1777	2.1760	2.3675e-03	0.0000e+00
71	EMPTY	2.1875	2.1924	2.1896	2.4344e-03	0.0000e+00
72	EMPTY	2.1924	2.2021	2.1950	2.6488e-03	0.0000e+00
73	EMPTY	2.2021	2.2070	2.2057	2.2146e-03	0.0000e+00
74	EMPTY	2.2070	2.2168	2.2120	1.2041e-03	0.0000e+00
75	EMPTY	2.2168	2.2266	2.2216	1.2041e-03	0.0000e+00
76	EMPTY	2.2266	2.2314	2.2268	9.6655e-04	0.0000e+00
77	EMPTY	2.2363	2.2461	2.2390	2.6488e-03	0.0000e+00
78	EMPTY	2.2510	2.2559	2.2515	1.4797e-03	0.0000e+00
79	EMPTY	2.2656	2.2705	2.2668	2.1065e-03	0.0000e+00
80	PAN020136	-19.2920	-15.6298	-17.1191	1.0568e+00	8.7105e-01
81	PAN050136	-38.6264	-31.1496	-35.8890	2.3344e+00	1.6824e+00
82	PAN070136	-25.9425	-13.2777	-20.6126	3.5826e+00	8.7152e-01
83	PAN080136	-14.0791	-3.0165	-9.6342	3.0851e+00	8.7033e-01
84	PAN090136	-13.2045	-5.2699	-11.0545	1.6920e+00	8.7044e-01
85	PAN100136	-12.1600	-5.7513	-9.4363	1.4358e+00	8.7032e-01
86	PAN105136	-7.8531	-2.1311	-5.0074	1.5524e+00	8.7009e-01
87	PAN110136	-7.4378	-0.0373	-3.9619	1.4590e+00	8.7006e-01
88	PAN115136	-6.3815	-3.5586	-4.9593	5.7565e-01	8.7009e-01
89	PAN120136	-6.1013	-4.3465	-5.3658	5.0225e-01	8.7010e-01
90	PAN125136	-6.1116	-3.8228	-5.8461	4.2331e-01	8.7012e-01
91	PAN130136	-3.9518	3.2961	-1.9651	1.5864e+00	8.7001e-01
92	PAN120048	-12.0279	-8.8999	-10.5982	8.4450e-01	8.7040e-01
93	PAN130048	-10.5754	-7.3710	-9.3013	6.3762e-01	8.7031e-01
94	PAN120224	-11.6346	-5.5311	-9.7181	1.0691e+00	8.7034e-01
95	PAN130224	-11.0786	-8.1031	-9.7221	6.6392e-01	8.7034e-01
96	PAN120312	-12.3918	-8.2719	-10.2968	7.5452e-01	8.7038e-01
97	PAN130312	-10.3817	-6.8722	-9.3517	7.2580e-01	8.7031e-01
98	PAB000136	40.1602	40.4806	40.3552	6.2595e-02	5.8871e-01
99	PAB100136	43.9421	44.2167	44.1078	5.8410e-02	5.9039e-01
100	PAB125136	44.8857	45.2519	45.0459	7.9690e-02	5.9083e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8917	40.1358	40.0797	7.0664e-02	7.5666e-01
102	PRV0000001	19.4847	19.7289	19.6117	3.4527e-02	7.5160e-01
103	PSR0000001	44.9998	45.2439	45.1194	4.6072e-02	7.5843e-01
104	PFM0000001	1.4313	1.7060	1.5723	7.8930e-02	5.0002e-01
105	PAN000136	-136.8970	-131.4039	-133.6011	1.1662e+00	4.9313e+00
106	PFM0000002	1.5783	1.6118	1.5930	9.9646e-03	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0021	3.8409e-03	0.0000e+00
108	EMPTY	-10.0000	-7.4707	-9.8994	4.0780e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	102.0771	102.6630	102.3935	1.2409e-01	1.0166e+00
113	VPW0000002	119.2721	119.8580	119.5376	1.1679e-01	1.0819e+00
114	VPW0000003	146.9276	147.3182	147.0878	1.0942e-01	1.1979e+00
115	VPW0000004	104.7889	105.3748	105.0819	1.5409e-01	1.0265e+00
116	VPW0000005	139.5470	140.3283	140.0314	1.5902e-01	1.1671e+00
117	VPW0000006	147.3745	148.1558	147.8198	1.6760e-01	1.2011e+00
118	IPW0000001	538.8844	542.7891	541.4614	1.3341e+00	9.1601e+00
119	IPW0000002	1306.8251	1310.7277	1308.8157	1.2768e+00	1.3135e+01
120	IPW0000003	1326.7874	1332.6375	1329.5565	1.6286e+00	1.3264e+01
121	IPW0000004	377.6292	379.0940	378.6349	3.7447e-01	3.5982e+00
122	IPW0000005	252.3317	253.7964	252.9567	3.5619e-01	2.8273e+00
123	IPW0000006	262.8174	264.7705	263.8428	4.7566e-01	2.8887e+00
124	EMPTY	-0.0342	-0.0146	-0.0226	4.2875e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.4164e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0195	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.2434e-03	0.0000e+00
128	IHT0000001	128.1137	131.0434	129.5513	6.6703e-01	4.2998e+00
129	IHT0000002	132.1890	134.9234	133.3882	5.9974e-01	4.3115e+00
130	IHT0000003	132.5308	135.4605	133.7534	6.0850e-01	4.3127e+00
131	IHT0000004	130.6566	133.5863	131.8754	6.4905e-01	4.3069e+00
132	IHT0000005	129.2856	131.6294	130.3403	5.7318e-01	4.3022e+00
133	IHT0000006	124.1587	126.6977	125.1977	5.8851e-01	4.2869e+00
134	IHT0000007	131.1899	133.7290	132.2524	5.7475e-01	4.3080e+00
135	IHT0000008	129.7251	132.0688	130.7837	5.4973e-01	4.3035e+00
136	IHT0000009	130.2471	132.5909	131.2862	5.9378e-01	4.3051e+00
137	IHT0000010	132.0838	134.6229	133.0760	5.3936e-01	4.3106e+00
138	IHT0000011	130.5551	133.0942	131.4341	5.0878e-01	4.3055e+00
139	IHT0000012	128.3504	130.4988	129.2684	4.6059e-01	4.2990e+00
140	IHT0000013	91.3499	93.3030	92.1936	4.5752e-01	4.2024e+00
141	IHT0000014	127.5391	129.8828	128.5078	5.1744e-01	4.2967e+00
142	IHT0000015	94.6777	97.2168	95.9824	5.0136e-01	4.2109e+00
143	IHT0000016	88.5367	90.2945	89.4663	4.7443e-01	4.1965e+00
144	IHT0000017	104.7251	106.6782	105.6626	4.6689e-01	4.2340e+00
145	IHT0000018	107.2491	109.3975	108.2061	5.8427e-01	4.2404e+00
146	IHT0000019	103.3616	105.5101	104.1937	4.9726e-01	4.2303e+00
147	IHT0000020	105.6077	107.7561	106.5843	5.0532e-01	4.2363e+00
148	IHT0000021	-2.6104	0.1240	-1.4932	6.2644e-01	4.1000e+00
149	IHT0000022	92.1912	94.3397	93.0858	5.3100e-01	4.2043e+00
150	IHT0000023	104.4621	106.6106	105.3527	5.0248e-01	4.2332e+00
151	IHT0000024	69.8355	71.7886	70.5933	4.4754e-01	4.1603e+00
152	IHT0000025	104.3044	106.6481	105.0661	5.1335e-01	4.2325e+00
153	IHT0000026	104.9091	107.4482	105.8115	5.3654e-01	4.2343e+00
154	IHT0000027	89.8100	91.9584	90.7319	5.1906e-01	4.1992e+00
155	IHT0000028	91.1584	93.5021	92.1428	5.2193e-01	4.2023e+00

Test: Aug01_08

sum1

Date: Wed Aug 1 13:55:52 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.6049	106.7533	105.5034	5.1297e-01	4.2336e+00
157	IHT000030	106.6256	109.1647	107.9109	5.0700e-01	4.2396e+00
158	IHT000031	105.3223	107.6660	106.4551	5.2940e-01	4.2359e+00
159	IHT000032	106.1524	108.6914	107.4336	5.0864e-01	4.2384e+00
160	IHT000033	106.1523	108.6914	107.3828	5.1031e-01	4.2383e+00
161	IHT000034	93.5171	95.8609	94.4546	4.5506e-01	4.2074e+00
162	IHT000035	123.5051	125.4582	124.4699	4.2574e-01	4.2848e+00
163	IHT000036	92.1950	94.1481	93.1403	4.4004e-01	4.2045e+00

Test: Aug01_08

sum2

Date: Wed Aug 1 13:55:52 1990

Page: 1

Velocity 1 = 3.2920 (ft/sec) (+/- 15.8056 %)
Velocity 2 = 3.2842 (ft/sec) (+/- 5.9261 %)
Pressure drop = -4.8326 (psi)
Tsats in = 267.9189 (deg F) Tsats out = 274.5031 (deg F)
Phi inner = 101.0995 (kBtu/hr-ft2) (+/- 1.4117 %)
Phi outer = 101.1845 (kBtu/hr-ft2) (+/- 1.5419 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	80.2888	80.9257	80.5733	1.8994e-01	1.9001e+00
1	TRF000002	80.7364	81.1587	80.8926	1.2661e-01	1.9001e+00
2	TFM000001	87.4819	88.2173	87.8561	1.7889e-01	1.9002e+00
3	TIN000001	86.8436	87.4745	87.1126	1.3316e-01	1.9002e+00
4	TRV000001	88.5796	89.3137	88.9485	2.0098e-01	1.9002e+00
5	TSR000001	159.8985	162.5673	160.9939	6.3669e-01	1.9056e+00
6	TAO020136	79.9994	81.6928	80.6561	3.5068e-01	1.9001e+00
7	TAO050136	212.6540	214.9374	213.8417	3.7396e-01	1.9139e+00
8	TAO070136	219.6944	222.2772	220.9882	5.6972e-01	1.9153e+00
9	TAO080136	249.6369	250.6620	250.1547	2.6289e-01	1.9217e+00
10	TAO090136	258.2859	259.5845	258.8951	2.7939e-01	1.9239e+00
11	TAO100136	257.9979	260.4119	259.5096	5.7129e-01	1.9240e+00
12	TAO105136	264.2807	266.1372	265.0681	4.8323e-01	1.9255e+00
13	TAO110136	273.2190	274.4072	273.7815	3.0510e-01	1.9278e+00
14	TAO115136	270.6133	272.0914	271.3148	3.5466e-01	1.9271e+00
15	TAO120136	284.4263	285.6182	284.9584	2.7161e-01	1.9309e+00
16	TAO125136	177.8403	196.1210	183.7646	4.0436e+00	1.9087e+00
17	TAO130136	274.5741	275.9410	275.3203	2.6220e-01	1.9282e+00
18	TAO120048	113.2279	114.3602	113.7837	3.3310e-01	1.9013e+00
19	TAO130048	285.1436	286.2397	285.7092	2.7475e-01	1.9311e+00
20	TAO120224	279.7552	280.8578	280.2040	2.8068e-01	1.9295e+00
21	TAO130224	267.3739	268.5691	268.0499	2.6719e-01	1.9262e+00
22	TAO120312	284.3530	285.7295	285.0690	3.3101e-01	1.9309e+00
23	TAO130312	280.3973	281.1324	280.7868	1.9565e-01	1.9297e+00
24	TRT020000	203.4861	205.0313	204.1120	3.5509e-01	1.9121e+00
25	TRT070000	248.8746	250.4737	249.6463	3.0246e-01	1.9216e+00
26	TRT100000	281.5092	282.3344	281.8719	2.1271e-01	1.9300e+00
27	TRT120000	290.0052	291.0099	290.5200	1.8339e-01	1.9325e+00
28	TRT125000	294.7236	295.6293	295.1486	2.1429e-01	1.9338e+00
29	TRT130000	286.8807	287.7037	287.2608	2.1331e-01	1.9315e+00
30	EMPTY	39.3761	40.0646	39.7938	2.4400e-01	1.9011e+00
31	TAF050136	145.4606	148.9563	146.9439	6.8735e-01	1.9040e+00
32	TAF070136	170.1057	173.7267	171.4535	6.1290e-01	1.9069e+00
33	TAF080136	249.5296	252.4958	251.3553	6.4909e-01	1.9220e+00
34	TAF090136	97.2287	98.1665	97.7160	2.5981e-01	1.9005e+00
35	TAF100136	203.6533	209.1429	206.1629	1.5166e+00	1.9124e+00
36	TAF105136	209.1709	214.3942	211.6795	1.4105e+00	1.9135e+00
37	TAF110136	215.1624	218.3945	216.6431	6.8002e-01	1.9144e+00
38	TAF115136	222.1391	226.5904	223.6936	7.9053e-01	1.9158e+00
39	TAF120136	265.5867	267.5228	266.5786	4.1800e-01	1.9259e+00
40	TAF125136	234.8193	237.8113	236.3871	7.3017e-01	1.9186e+00
41	TAF130136	237.7825	240.4125	239.0265	5.4774e-01	1.9192e+00
42	TAF120048	239.7239	241.9951	240.9588	4.2651e-01	1.9196e+00
43	TAF130048	253.7855	255.6482	254.6090	4.7392e-01	1.9228e+00
44	TAF120224	223.4415	226.1933	224.5690	5.8438e-01	1.9160e+00
45	TAF130224	232.4700	234.1793	233.3553	4.5010e-01	1.9179e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.1491	2.5273e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	39.9591	1.2448e-01	1.9011e+00
48	TAI130048	278.2888	279.3916	278.7965	2.7446e-01	1.9291e+00
49	TAI130136	280.3002	281.5828	281.1026	2.7559e-01	1.9298e+00
50	TAI130224	283.0096	284.9384	284.0899	3.6071e-01	1.9306e+00
51	TAI130312	275.5252	276.9085	276.2964	3.2138e-01	1.9285e+00
52	TRR130000	119.9715	123.0285	120.9913	6.5133e-01	1.9018e+00
53	TSI000001	68.7432	69.5965	69.1571	1.9574e-01	1.9000e+00
54	TSI000002	70.3359	74.8967	72.1576	1.1542e+00	1.9000e+00
55	TSO000001	68.0393	69.0042	68.5584	2.1254e-01	1.9000e+00
56	TSO000002	86.0102	86.9580	86.4315	2.1689e-01	1.9002e+00
57	TAF020136	106.5244	108.9168	107.6356	5.6267e-01	1.9010e+00
58	TAF120312	233.8737	236.7991	235.3499	5.8137e-01	1.9183e+00
59	TAF130312	257.4834	259.8051	258.6463	5.1929e-01	1.9238e+00
60	EMPTY	4.5557	4.5850	4.5715	7.2195e-03	0.0000e+00
61	EMPTY	4.5410	4.5605	4.5521	5.7555e-03	0.0000e+00
62	EMPTY	4.5215	4.5361	4.5321	4.0301e-03	0.0000e+00
63	EMPTY	4.5166	4.5264	4.5222	2.7919e-03	0.0000e+00
64	EMPTY	2.1338	2.1436	2.1417	2.5894e-03	0.0000e+00
65	EMPTY	2.1484	2.1533	2.1530	1.1714e-03	0.0000e+00
66	EMPTY	2.1582	2.1680	2.1601	2.5894e-03	0.0000e+00
67	EMPTY	2.1631	2.1729	2.1689	2.4164e-03	0.0000e+00
68	EMPTY	2.1680	2.1777	2.1737	2.1364e-03	0.0000e+00
69	EMPTY	2.1777	2.1826	2.1821	1.4797e-03	0.0000e+00
70	EMPTY	2.1826	2.1924	2.1881	1.8821e-03	0.0000e+00
71	EMPTY	2.1973	2.2070	2.2018	1.6624e-03	0.0000e+00
72	EMPTY	2.2021	2.2119	2.2066	2.1703e-03	0.0000e+00
73	EMPTY	2.2119	2.2217	2.2172	1.6624e-03	0.0000e+00
74	EMPTY	2.2168	2.2266	2.2244	2.6396e-03	0.0000e+00
75	EMPTY	2.2314	2.2363	2.2329	2.2603e-03	0.0000e+00
76	EMPTY	2.2363	2.2461	2.2390	2.8266e-03	0.0000e+00
77	EMPTY	2.2461	2.2510	2.2501	1.8950e-03	0.0000e+00
78	EMPTY	2.2607	2.2656	2.2636	2.4344e-03	0.0000e+00
79	EMPTY	2.2754	2.2803	2.2790	2.1635e-03	0.0000e+00
80	PAN020136	-19.9023	-15.7061	-17.0825	9.5066e-01	8.7105e-01
81	PAN050136	-38.9316	-31.1496	-36.5451	2.4142e+00	1.6825e+00
82	PAN070136	-25.8662	-11.6755	-20.6553	3.2906e+00	8.7153e-01
83	PAN080136	-14.0028	-1.7957	-8.9826	2.9000e+00	8.7029e-01
84	PAN090136	-13.1282	0.6047	-9.2647	2.6995e+00	8.7031e-01
85	PAN100136	-12.1600	-5.9802	-10.5883	1.2977e+00	8.7040e-01
86	PAN105136	-7.4717	-0.8341	-4.5374	1.3735e+00	8.7007e-01
87	PAN110136	-7.1326	-1.7921	-3.9207	9.8831e-01	8.7006e-01
88	PAN115136	-6.9918	-4.2452	-5.2569	6.3362e-01	8.7010e-01
89	PAN120136	-6.1013	-3.2784	-5.2025	7.4868e-01	8.7010e-01
90	PAN125136	-6.1116	-4.1279	-5.8262	4.3345e-01	8.7012e-01
91	PAN130136	-4.4859	1.2362	-2.1482	1.2821e+00	8.7002e-01
92	PAN120048	-11.9516	-9.6628	-10.8500	5.4434e-01	8.7042e-01
93	PAN130048	-10.5754	-8.3628	-9.5744	4.4155e-01	8.7033e-01
94	PAN120224	-11.8635	-3.0897	-8.8041	1.9374e+00	8.7028e-01
95	PAN130224	-11.1549	-6.5772	-9.5008	8.9988e-01	8.7032e-01
96	PAN120312	-12.3918	-8.8060	-10.0984	7.5753e-01	8.7037e-01
97	PAN130312	-11.0684	-6.2618	-9.2495	8.4934e-01	8.7031e-01
98	PAB000136	40.2518	40.4806	40.3708	6.2725e-02	5.8872e-01
99	PAB100136	43.9878	44.3540	44.1352	6.7512e-02	5.9040e-01
100	PAB125136	44.9315	45.2977	45.0423	8.2247e-02	5.9083e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8917	40.5021	40.2506	1.2432e-01	7.5672e-01
102	PRV000001	19.6068	19.7289	19.6312	4.9324e-02	7.5160e-01
103	PSR000001	45.1218	45.2439	45.1609	5.7521e-02	7.5845e-01
104	PFM000001	1.5229	1.7060	1.5906	6.0814e-02	5.0002e-01
105	PAN000136	-139.1859	-131.4039	-133.7934	1.5092e+00	4.9314e+00
106	PFM000002	1.5279	1.6286	1.5830	2.4219e-02	2.0004e-01
107	EMPTY	-0.0049	0.0049	0.0007	4.3011e-03	0.0000e+00
108	EMPTY	-10.0000	-6.6211	-9.8767	5.9986e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0018	2.5648e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW000001	102.2724	102.6630	102.4248	1.2027e-01	1.0167e+00
113	VPW000002	119.2721	119.6627	119.5298	1.0014e-01	1.0819e+00
114	VPW000003	146.9276	147.5135	147.1386	1.4139e-01	1.1981e+00
115	VPW000004	104.7889	105.3748	105.1053	1.4706e-01	1.0265e+00
116	VPW000005	139.9377	140.3283	140.1173	1.2378e-01	1.1674e+00
117	VPW000006	147.5698	148.1558	147.9175	1.2027e-01	1.2016e+00
118	IPW000001	540.8367	546.6937	544.9757	1.5092e+00	9.1731e+00
119	IPW000002	1304.8738	1314.6301	1308.7371	2.0669e+00	1.3134e+01
120	IPW000003	1326.7874	1332.6375	1330.1417	1.4762e+00	1.3268e+01
121	IPW000004	380.0706	383.9768	381.8966	1.0798e+00	3.6197e+00
122	IPW000005	252.8199	254.2846	253.5035	2.9591e-01	2.8303e+00
123	IPW000006	263.3057	264.7705	264.0284	3.1567e-01	2.8898e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.6858e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.6267e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0154	4.1102e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.5962e-03	0.0000e+00
128	IHT000001	128.5044	130.8481	129.6489	5.4678e-01	4.3001e+00
129	IHT000002	132.3843	134.5327	133.4468	4.5704e-01	4.3117e+00
130	IHT000003	132.7261	135.0699	133.7886	4.8030e-01	4.3128e+00
131	IHT000004	130.8519	133.0003	131.9066	4.4990e-01	4.3070e+00
132	IHT000005	129.4809	131.4341	130.3638	4.3805e-01	4.3023e+00
133	IHT000006	124.1587	126.3071	125.2485	4.7856e-01	4.2870e+00
134	IHT000007	131.1899	133.1431	132.2524	4.3968e-01	4.3080e+00
135	IHT000008	129.7251	131.6782	130.7681	4.4749e-01	4.3035e+00
136	IHT000009	130.0518	132.2003	131.2237	4.9126e-01	4.3049e+00
137	IHT000010	131.6932	134.4276	133.2987	6.0912e-01	4.3112e+00
138	IHT000011	129.9692	132.7036	131.5747	5.9620e-01	4.3059e+00
139	IHT000012	127.7644	130.3035	129.2840	5.1189e-01	4.2990e+00
140	IHT000013	90.9593	93.4983	92.2757	5.2617e-01	4.2026e+00
141	IHT000014	127.5391	129.8828	128.6875	4.9069e-01	4.2972e+00
142	IHT000015	95.0683	97.4121	96.0293	4.7160e-01	4.2110e+00
143	IHT000016	88.3414	90.8804	89.5562	5.0577e-01	4.1967e+00
144	IHT000017	105.3110	108.4360	106.9556	6.9932e-01	4.2372e+00
145	IHT000018	107.2491	109.9835	108.4639	5.9358e-01	4.2410e+00
146	IHT000019	103.1663	105.5101	104.4046	5.4335e-01	4.2308e+00
147	IHT000020	105.6077	107.5608	106.6859	4.6226e-01	4.2365e+00
148	IHT000021	-2.8057	-0.2667	-1.3721	5.9400e-01	4.1000e+00
149	IHT000022	92.1912	93.9491	93.1717	4.4728e-01	4.2045e+00
150	IHT000023	104.2668	106.6106	105.3762	4.6260e-01	4.2333e+00
151	IHT000024	69.6402	71.7886	70.6948	4.7842e-01	4.1605e+00
152	IHT000025	103.9138	106.4528	105.1403	5.6914e-01	4.2327e+00
153	IHT000026	104.9091	107.2528	105.9560	5.2014e-01	4.2347e+00
154	IHT000027	90.0053	92.1537	90.8881	5.1029e-01	4.1995e+00
155	IHT000028	90.7677	93.5021	92.2521	5.9451e-01	4.2025e+00

Test: Aug01_08

sum2

Date: Wed Aug 1 13:55:52 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	104.2142	106.7533	105.6245	5.4859e-01	4.2339e+00
157	IHT000030	106.4303	109.1647	107.9694	5.8745e-01	4.2398e+00
158	IHT000031	104.9316	107.8613	106.5137	6.1795e-01	4.2361e+00
159	IHT000032	105.9570	109.0820	107.5820	6.5843e-01	4.2388e+00
160	IHT000033	105.9570	108.8867	107.5078	6.4163e-01	4.2386e+00
161	IHT000034	93.1265	95.8609	94.5249	5.6546e-01	4.2076e+00
162	IHT000035	123.3098	125.6535	124.5753	5.7350e-01	4.2851e+00
163	IHT000036	91.9997	94.9294	93.2146	5.8433e-01	4.2046e+00

Test: Aug01_08 dif Date: Wed Aug 1 13:55:52 1990 Page: 1

Velocity 1 = 0.018500 (ft/sec)

Velocity 2 = 0.010200 (ft/sec)

Pressure Drop = 0.006900 (psi)

Tsat in = 0.023010 (deg F) Tsat out = 0.004883 (deg F)

Phi inner = 0.089104 (kBtu/hr-ft2) Phi outer = 0.283699 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0934	0.1161
1	TRF000002	0.0971	0.1202
2	TFM000001	0.0109	0.0124
3	TIN000001	0.0525	0.0602
4	TRV000001	0.1936	0.2172
5	TSR000001	3.9976	2.4229
6	TAO020136	0.5695	0.7111
7	TAO050136	0.8243	0.3870
8	TAO070136	3.1672	1.4129
9	TAO080136	1.0137	0.4069
10	TAO090136	0.4699	0.1818
11	TAO100136	1.1979	0.4637
12	TAO105136	0.5737	0.2169
13	TAO110136	0.6240	0.2284
14	TAO115136	1.0259	0.3795
15	TAO120136	0.6912	0.2431
16	TAO125136	15.9598	7.9909
17	TAO130136	0.6098	0.2220
18	TAO120048	0.5862	0.5179
19	TAO130048	0.3233	0.1133
20	TAO120224	0.7587	0.2715
21	TAO130224	0.6516	0.2437
22	TAO120312	0.3541	0.1244
23	TAO130312	0.3613	0.1288
24	TRT020000	0.5659	0.2780
25	TRT070000	1.0338	0.4158
26	TRT100000	0.3060	0.1087
27	TRT120000	0.4765	0.1643
28	TRT125000	0.2162	0.0733
29	TRT130000	0.3490	0.1216
30	EMPTY	0.0460	0.1155
31	TAF050136	0.4661	0.3182
32	TAF070136	0.9158	0.5370
33	TAF080136	2.2954	0.9216
34	TAF090136	0.2896	0.2973
35	TAF100136	0.7421	0.3613
36	TAF105136	1.4779	0.7031
37	TAF110136	1.3344	0.6198
38	TAF115136	1.6676	0.7511
39	TAF120136	0.4741	0.1782
40	TAF125136	0.9455	0.4016
41	TAF130136	1.1445	0.4811
42	TAF120048	1.4706	0.6141
43	TAF130048	2.0257	0.8020
44	TAF120224	1.5359	0.6886
45	TAF130224	1.2859	0.5541

#	Name	Abs Diff	%Diff
46	EMPTY	0.0275	0.0721
47	EMPTY	0.0138	0.0345
48	TAI130048	0.2742	0.0984
49	TAI130136	0.5149	0.1835
50	TAI130224	0.7259	0.2562
51	TAI130312	0.9350	0.3396
52	TRR130000	0.5492	0.4560
53	TSI000001	0.1037	0.1497
54	TSI000002	0.1685	0.2341
55	TSO000001	0.1440	0.2096
56	TSO000002	0.0146	0.0169
57	TAF020136	0.3680	0.3431
58	TAF120312	1.3578	0.5803
59	TAF130312	1.4474	0.5628
60	EMPTY	0.0362	0.7982
61	EMPTY	0.0352	0.7793
62	EMPTY	0.0343	0.7626
63	EMPTY	0.0326	0.7261
64	EMPTY	0.0151	0.7101
65	EMPTY	0.0139	0.6498
66	EMPTY	0.0144	0.6711
67	EMPTY	0.0136	0.6310
68	EMPTY	0.0130	0.6017
69	EMPTY	0.0118	0.5437
70	EMPTY	0.0121	0.5561
71	EMPTY	0.0122	0.5572
72	EMPTY	0.0116	0.5285
73	EMPTY	0.0115	0.5214
74	EMPTY	0.0124	0.5606
75	EMPTY	0.0113	0.5086
76	EMPTY	0.0122	0.5479
77	EMPTY	0.0111	0.4957
78	EMPTY	0.0121	0.5374
79	EMPTY	0.0122	0.5382
80	PAN020136	0.0366	0.2138
81	PAN050136	0.6561	1.8281
82	PAN070136	0.0427	0.2072
83	PAN080136	0.6516	6.7634
84	PAN090136	1.7898	16.1907
85	PAN100136	1.1520	12.2082
86	PAN105136	0.4700	9.3861
87	PAN110136	0.0412	1.0399
88	PAN115136	0.2976	6.0008
89	PAN120136	0.1633	3.0433
90	PAN125136	0.0199	0.3404
91	PAN130136	0.1831	9.3176
92	PAN120048	0.2518	2.3759
93	PAN130048	0.2731	2.9361
94	PAN120224	0.9140	9.4051
95	PAN130224	0.2213	2.2763
96	PAN120312	0.1984	1.9268
97	PAN130312	0.1022	1.0928
98	PAB000136	0.0156	0.0387
99	PAB100136	0.0274	0.0621
100	PAB125136	0.0036	0.0080

Test: Aug01_08

dif

Date: Wed Aug 1 13:55:52 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN0000001	0.1709	0.4264
102	PRV0000001	0.0195	0.0994
103	PSR0000001	0.0415	0.0920
104	PFM0000001	0.0183	1.1639
105	PAN000136	0.1923	0.1439
106	PFM0000002	0.0100	0.6278
107	EMPTY	0.0014	66.6667
108	EMPTY	0.0227	0.2293
109	EMPTY	0.0006	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW0000001	0.0313	0.0306
113	VPW0000002	0.0078	0.0065
114	VPW0000003	0.0508	0.0345
115	VPW0000004	0.0234	0.0223
116	VPW0000005	0.0859	0.0613
117	VPW0000006	0.0977	0.0661
118	IPW0000001	3.5143	0.6490
119	IPW0000002	0.0786	0.0060
120	IPW0000003	0.5852	0.0440
121	IPW0000004	3.2617	0.8614
122	IPW0000005	0.5468	0.2162
123	IPW0000006	0.1856	0.0703
124	EMPTY	0.0029	12.8319
125	EMPTY	0.0020	13.6986
126	EMPTY	0.0041	21.0256
127	EMPTY	0.0002	1.2579
128	IHT0000001	0.0976	0.0753
129	IHT0000002	0.0586	0.0439
130	IHT0000003	0.0352	0.0263
131	IHT0000004	0.0312	0.0237
132	IHT0000005	0.0235	0.0180
133	IHT0000006	0.0508	0.0406
134	IHT0000007	0.0000	0.0000
135	IHT0000008	0.0156	0.0119
136	IHT0000009	0.0625	0.0476
137	IHT0000010	0.2227	0.1673
138	IHT0000011	0.1406	0.1070
139	IHT0000012	0.0156	0.0121
140	IHT0000013	0.0821	0.0891
141	IHT0000014	0.1797	0.1398
142	IHT0000015	0.0469	0.0489
143	IHT0000016	0.0899	0.1005
144	IHT0000017	1.2930	1.2237
145	IHT0000018	0.2578	0.2382
146	IHT0000019	0.2109	0.2024
147	IHT0000020	0.1016	0.0953
148	IHT0000021	0.1211	8.1101
149	IHT0000022	0.0859	0.0923
150	IHT0000023	0.0235	0.0223
151	IHT0000024	0.1015	0.1438
152	IHT0000025	0.0742	0.0706
153	IHT0000026	0.1445	0.1366
154	IHT0000027	0.1562	0.1722
155	IHT0000028	0.1093	0.1186

Test: Aug01_08

dif

Date: Wed Aug 1 13:55:52 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1211	0.1148
157	IHT000030	0.0586	0.0543
158	IHT000031	0.0586	0.0550
159	IHT000032	0.1484	0.1381
160	IHT000033	0.1250	0.1164
161	IHT000034	0.0703	0.0744
162	IHT000035	0.1054	0.0847
163	IHT000036	0.0743	0.0798

Velocity 1 = 25.9481 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4163 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.1555 (psi)
Tsat in = 268.0000 (deg F) Tsat out = 233.7540 (deg F)
Phi inner = 200.0756 (kBtu/hr-ft2) (+/- 1.2823 %)
Phi outer = 201.7830 (kBtu/hr-ft2) (+/- 1.3377 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	81.9865	82.6226	82.4233	1.7871e-01	1.9001e+00
1	TRF000002	82.0027	82.8462	82.6775	1.6498e-01	1.9001e+00
2	TFM000001	87.5944	88.5390	88.1002	2.1381e-01	1.9002e+00
3	TIN000001	87.0561	87.8968	87.5163	1.6861e-01	1.9002e+00
4	TRV000001	88.2784	89.1164	88.6580	1.9491e-01	1.9002e+00
5	TSR000001	124.5557	126.8908	125.5005	4.9236e-01	1.9021e+00
6	TAO020136	82.6445	87.3894	85.1583	1.1166e+00	1.9002e+00
7	TAO050136	129.1235	130.0358	129.6082	2.1779e-01	1.9024e+00
8	TAO070136	132.2789	133.1944	132.7733	2.2143e-01	1.9027e+00
9	TAO080136	141.1343	143.1361	142.5139	3.4654e-01	1.9035e+00
10	TAO090136	145.7851	147.4878	146.4005	2.9596e-01	1.9039e+00
11	TAO100136	139.5960	141.9101	140.6729	4.4542e-01	1.9034e+00
12	TAO105136	141.3429	143.2583	142.2646	5.0779e-01	1.9035e+00
13	TAO110136	145.4078	147.1006	146.0432	3.6007e-01	1.9039e+00
14	TAO115136	141.8100	143.5210	142.6018	3.2914e-01	1.9035e+00
15	TAO120136	152.2569	153.8548	152.8105	3.7483e-01	1.9046e+00
16	TAO125136	128.5339	130.1566	129.3726	3.9027e-01	1.9024e+00
17	TAO130136	144.8003	146.1860	145.3218	3.1436e-01	1.9038e+00
18	TAO120048	97.6138	98.6555	98.1701	3.0003e-01	1.9005e+00
19	TAO130048	146.6481	148.0467	147.3150	3.1758e-01	1.9040e+00
20	TAO120224	149.9489	151.6492	150.5278	3.7637e-01	1.9044e+00
21	TAO130224	141.1730	143.2711	142.1153	4.3242e-01	1.9035e+00
22	TAO120312	147.3923	148.8974	148.1611	3.9897e-01	1.9041e+00
23	TAO130312	147.7500	148.9496	148.1806	2.4251e-01	1.9041e+00
24	TRT020000	126.5705	127.4895	126.9691	2.0446e-01	1.9022e+00
25	TRT070000	138.1984	139.2120	138.7672	2.3808e-01	1.9032e+00
26	TRT100000	151.0921	152.1893	151.6365	2.2204e-01	1.9045e+00
27	TRT120000	148.3552	148.9565	148.6339	1.6850e-01	1.9042e+00
28	TRT125000	77.5795	279.2825	156.2174	3.6816e+01	1.9050e+00
29	TRT130000	150.5340	151.2338	150.9357	1.6958e-01	1.9044e+00
30	EMPTY	39.3761	40.0646	39.8443	2.1228e-01	1.9011e+00
31	TAF050136	101.7588	102.3818	102.1429	1.7310e-01	1.9007e+00
32	TAF070136	107.1009	107.9259	107.5448	2.0859e-01	1.9009e+00
33	TAF080136	135.2132	167.8273	143.4314	6.2628e+00	1.9036e+00
34	TAF090136	89.8242	90.9765	90.3375	2.7775e-01	1.9003e+00
35	TAF100136	116.4868	117.5148	116.9988	1.8636e-01	1.9015e+00
36	TAF105136	117.9180	118.8373	118.2887	2.3381e-01	1.9016e+00
37	TAF110136	119.6341	120.3502	120.1471	1.5796e-01	1.9017e+00
38	TAF115136	121.9738	122.7910	122.3438	1.9660e-01	1.9018e+00
39	TAF120136	133.2971	140.8363	135.4433	1.1010e+00	1.9029e+00
40	TAF125136	124.7950	125.9059	125.3449	2.4803e-01	1.9021e+00
41	TAF130136	126.2837	127.0972	126.7335	1.8167e-01	1.9022e+00
42	TAF120048	123.4570	124.4827	123.9392	2.2348e-01	1.9020e+00
43	TAF130048	126.5656	127.3810	127.0042	1.7728e-01	1.9022e+00
44	TAF120224	122.2162	123.0344	122.6318	1.8506e-01	1.9019e+00
45	TAF130224	124.7631	125.4799	125.1094	1.7412e-01	1.9020e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0894	1.9152e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.4266	1.4879e-01	1.9010e+00
48	TAI130048	140.3110	141.4196	140.8772	3.1857e-01	1.9034e+00
49	TAI130136	145.5774	146.4797	146.1327	1.7332e-01	1.9039e+00
50	TAI130224	146.3563	147.4626	146.8895	3.1474e-01	1.9040e+00
51	TAI130312	140.6556	141.6646	141.1783	2.2663e-01	1.9034e+00
52	TRR130000	119.5733	120.9009	120.2206	3.0418e-01	1.9017e+00
53	TSI000001	67.0501	67.7973	67.4791	1.5026e-01	1.9000e+00
54	TSI000002	76.2805	80.8192	78.2219	1.0102e+00	1.9000e+00
55	TSO000001	66.8542	67.8195	67.4230	2.3355e-01	1.9000e+00
56	TSO000002	74.7094	75.6647	75.1572	2.1593e-01	1.9000e+00
57	TAF020136	90.6905	91.6363	91.1711	1.9958e-01	1.9003e+00
58	TAF120312	121.5334	122.6577	122.0788	2.7842e-01	1.9018e+00
59	TAF130312	127.8213	129.4453	128.3961	3.6894e-01	1.9023e+00
60	EMPTY	1.2695	1.2891	1.2767	3.5854e-03	0.0000e+00
61	EMPTY	1.2793	1.2891	1.2833	2.1364e-03	0.0000e+00
62	EMPTY	1.2842	1.2939	1.2893	2.1970e-03	0.0000e+00
63	EMPTY	1.2988	1.3037	1.3001	2.1635e-03	0.0000e+00
64	EMPTY	0.7373	0.7471	0.7428	1.8821e-03	0.0000e+00
65	EMPTY	0.7617	0.7666	0.7662	1.3381e-03	0.0000e+00
66	EMPTY	0.7764	0.7813	0.7812	6.9053e-04	0.0000e+00
67	EMPTY	0.7959	0.8057	0.8004	1.9331e-03	0.0000e+00
68	EMPTY	0.8057	0.8154	0.8138	2.5362e-03	0.0000e+00
69	EMPTY	0.8301	0.8350	0.8304	1.1714e-03	0.0000e+00
70	EMPTY	0.8447	0.8496	0.8448	6.9053e-04	0.0000e+00
71	EMPTY	0.8643	0.8691	0.8672	2.4164e-03	0.0000e+00
72	EMPTY	0.8789	0.8838	0.8797	1.8082e-03	0.0000e+00
73	EMPTY	0.8984	0.9033	0.8996	2.1065e-03	0.0000e+00
74	EMPTY	0.9131	0.9180	0.9158	2.4484e-03	0.0000e+00
75	EMPTY	0.9326	0.9326	0.9326	0.0000e+00	0.0000e+00
76	EMPTY	0.9424	0.9521	0.9473	9.8648e-04	0.0000e+00
77	EMPTY	0.9619	0.9668	0.9665	1.1714e-03	0.0000e+00
78	EMPTY	0.9863	0.9912	0.9871	1.8082e-03	0.0000e+00
79	EMPTY	1.0059	1.0107	1.0070	2.1065e-03	0.0000e+00
80	PAN020136	67.4543	75.3125	69.6408	1.6745e+00	8.8725e-01
81	PAN050136	121.7435	123.4219	122.6438	4.0576e-01	1.7077e+00
82	PAN070136	92.6946	93.9916	93.3919	3.7756e-01	9.0078e-01
83	PAN080136	39.4030	45.3539	43.5457	1.3137e+00	8.7678e-01
84	PAN090136	30.5882	38.7517	34.9278	1.5992e+00	8.7437e-01
85	PAN100136	28.5810	39.4910	34.9012	2.3527e+00	8.7436e-01
86	PAN105136	13.2040	27.1658	19.2831	3.1047e+00	8.7133e-01
87	PAN110136	16.0607	29.7173	23.3773	3.7344e+00	8.7196e-01
88	PAN115136	14.7520	23.4495	19.0626	1.9909e+00	8.7130e-01
89	PAN120136	11.2175	26.0185	19.7899	3.3373e+00	8.7141e-01
90	PAN125136	8.8420	27.6866	15.0203	5.0535e+00	8.7081e-01
91	PAN130136	22.3696	36.9417	32.8036	3.2000e+00	8.7386e-01
92	PAN120048	26.1953	37.4868	32.5292	2.7235e+00	8.7379e-01
93	PAN130048	43.5933	52.1383	47.5683	2.1403e+00	8.7809e-01
94	PAN120224	23.5369	37.1935	29.0789	3.6389e+00	8.7303e-01
95	PAN130224	35.6896	48.3544	43.3587	3.6794e+00	8.7673e-01
96	PAN120312	25.4500	38.2674	32.5301	3.3307e+00	8.7379e-01
97	PAN130312	46.3047	55.9940	50.0583	2.9909e+00	8.7895e-01
98	PAB000136	40.1602	40.7095	40.4257	1.1327e-01	5.8874e-01
99	PAB100136	25.7688	26.0893	25.9300	8.6874e-02	5.8361e-01
100	PAB125136	21.8602	22.5469	22.3546	1.4117e-01	5.8269e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7696	40.5021	40.1505	1.8885e-01	7.5669e-01
102	PRV000001	19.4847	19.6068	19.6019	2.4164e-02	7.5160e-01
103	PSR000001	18.7546	18.7546	18.7546	1.9267e-06	7.5146e-01
104	PFM000001	102.0478	104.7944	103.8331	5.3680e-01	5.6337e-01
105	PAN000136	525.4870	536.9311	530.3303	2.8596e+00	5.0955e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0146	0.0103	1.4797e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.4106	2.9123e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0093	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
112	VPW000001	144.2646	145.0458	144.5537	1.8185e-01	1.1867e+00
113	VPW000002	168.6862	169.2721	169.0259	1.1027e-01	1.2979e+00
114	VPW000003	207.6698	208.2557	208.0214	1.4764e-01	1.4879e+00
115	VPW000004	148.1483	148.7342	148.3749	1.3873e-01	1.2036e+00
116	VPW000005	197.3595	198.1408	197.8751	1.7979e-01	1.4372e+00
117	VPW000006	209.2886	209.8745	209.4567	1.5288e-01	1.4952e+00
118	IPW000001	779.0226	790.7367	784.1769	2.2918e+00	1.0197e+01
119	IPW000002	1825.8628	1837.5704	1831.9111	3.5534e+00	1.6585e+01
120	IPW000003	1855.2374	1864.9874	1860.4241	1.9937e+00	1.6782e+01
121	IPW000004	539.7385	542.1799	541.0274	6.6731e-01	4.7189e+00
122	IPW000005	357.3016	359.2545	358.2293	4.4387e-01	3.4654e+00
123	IPW000006	369.7510	371.7041	370.4835	4.2142e-01	3.5449e+00
124	EMPTY	-0.0244	-0.0098	-0.0178	3.3829e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	2.7480e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0139	3.3249e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.3901e-03	0.0000e+00
128	IHT000001	181.8247	183.9731	182.7934	6.1252e-01	4.4890e+00
129	IHT000002	187.2671	189.4156	188.1969	6.3449e-01	4.5113e+00
130	IHT000003	188.3902	190.9292	189.4762	6.5810e-01	4.5166e+00
131	IHT000004	185.1488	187.4925	186.3441	6.4554e-01	4.5036e+00
132	IHT000005	182.9966	185.5356	184.2231	6.6032e-01	4.4949e+00
133	IHT000006	176.8930	179.8227	178.4868	6.4278e-01	4.4717e+00
134	IHT000007	185.0962	188.2212	186.8305	6.5035e-01	4.5056e+00
135	IHT000008	183.0454	186.3657	184.8071	6.5849e-01	4.4973e+00
136	IHT000009	183.9581	187.2784	185.4385	6.4367e-01	4.4999e+00
137	IHT000010	186.9666	189.7010	188.3808	6.2335e-01	4.5121e+00
138	IHT000011	184.8520	187.3911	186.0551	6.4881e-01	4.5024e+00
139	IHT000012	181.4754	184.2097	182.7841	6.1795e-01	4.4890e+00
140	IHT000013	130.2171	133.3421	131.6351	6.3111e-01	4.3061e+00
141	IHT000014	181.0547	183.9844	182.4453	6.1592e-01	4.4876e+00
142	IHT000015	134.9121	137.6465	136.2363	6.1039e-01	4.3204e+00
143	IHT000016	125.2554	128.3804	126.6929	5.9941e-01	4.2913e+00
144	IHT000017	150.2329	153.5532	151.6782	6.7543e-01	4.3716e+00
145	IHT000018	152.1710	155.1006	153.3975	7.1685e-01	4.3776e+00
146	IHT000019	146.7210	149.4554	148.0179	5.1864e-01	4.3590e+00
147	IHT000020	151.1155	153.6546	152.4398	5.1341e-01	4.3742e+00
148	IHT000021	-2.8057	-0.0714	-1.3878	5.8101e-01	4.1000e+00
149	IHT000022	130.6678	133.2069	131.9764	5.0107e-01	4.3072e+00
150	IHT000023	148.4075	151.1418	149.9777	5.4385e-01	4.3657e+00
151	IHT000024	113.3902	115.9293	114.6909	5.1389e-01	4.2574e+00
152	IHT000025	147.4685	150.3981	148.9332	5.7079e-01	4.3621e+00
153	IHT000026	149.2450	152.1747	150.6240	5.5160e-01	4.3679e+00
154	IHT000027	127.7006	129.8490	128.6772	5.2793e-01	4.2972e+00
155	IHT000028	129.4396	132.9552	130.6661	6.9030e-01	4.3032e+00

Test: Aug01_10

sum1

Date: Wed Aug 1 15:24:20 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.5502	151.2845	149.7924	5.9157e-01	4.3651e+00
157	IHT000030	151.5475	154.0865	152.6958	6.4070e-01	4.3751e+00
158	IHT000031	149.6582	152.1973	150.8066	6.0314e-01	4.3686e+00
159	IHT000032	151.4649	153.8086	152.5625	5.8112e-01	4.3746e+00
160	IHT000033	151.2695	153.8086	152.4687	6.0748e-01	4.3743e+00
161	IHT000034	133.3609	135.1187	134.0796	4.3484e-01	4.3137e+00
162	IHT000035	175.8488	177.4113	176.6495	4.3450e-01	4.4644e+00
163	IHT000036	131.6481	133.2106	132.3707	4.3629e-01	4.3084e+00

Test: Aug01_10

sum2

Date: Wed Aug 1 15:24:20 1990

Page: 1

Velocity 1 = 25.9937 (ft/sec) (+/- 1.6888 %)
Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
Pressure drop = 19.3116 (psi)
Tsats in = 268.0257 (deg F) Tsats out = 233.4420 (deg F)
Phi inner = 201.9054 (kBtu/hr-ft2) (+/- 1.2808 %)
Phi outer = 201.1217 (kBtu/hr-ft2) (+/- 1.3391 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.1986	82.8345	82.4615	1.6894e-01	1.9001e+00
1	TRF000002	82.4245	83.0570	82.7323	1.3609e-01	1.9001e+00
2	TFM000001	86.5451	87.2810	86.9510	1.9913e-01	1.9002e+00
3	TIN000001	85.8974	86.5296	86.2999	1.5889e-01	1.9002e+00
4	TRV000001	87.0241	88.1766	87.5589	2.5050e-01	1.9002e+00
5	TSR000001	125.5719	126.6881	126.1255	2.8501e-01	1.9021e+00
6	TAO020136	87.1794	89.9133	88.5658	6.6292e-01	1.9002e+00
7	TAO050136	127.8099	128.6220	128.2307	1.8102e-01	1.9023e+00
8	TAO070136	131.3613	132.3793	131.7708	2.2771e-01	1.9026e+00
9	TAO080136	140.8346	141.6375	141.2741	1.9102e-01	1.9034e+00
10	TAO090136	144.6839	145.8869	145.1190	2.6838e-01	1.9038e+00
11	TAO100136	138.7904	140.2009	139.3370	3.6399e-01	1.9032e+00
12	TAO105136	140.2333	142.0493	141.1435	4.7120e-01	1.9034e+00
13	TAO110136	144.3143	145.8074	144.8186	3.0803e-01	1.9038e+00
14	TAO115136	140.8024	142.3143	141.3733	3.4039e-01	1.9034e+00
15	TAO120136	150.7581	152.3578	151.3884	3.8957e-01	1.9045e+00
16	TAO125136	125.3840	127.0124	126.3511	3.6440e-01	1.9021e+00
17	TAO130136	143.6091	144.9013	144.0594	3.3323e-01	1.9037e+00
18	TAO120048	98.4462	99.5912	99.0896	3.0285e-01	1.9006e+00
19	TAO130048	145.3503	146.7503	145.9093	2.9579e-01	1.9039e+00
20	TAO120224	148.5492	150.5505	149.3643	4.1020e-01	1.9042e+00
21	TAO130224	139.7774	142.0757	140.7317	4.4082e-01	1.9034e+00
22	TAO120312	146.2885	147.7945	146.8286	3.7881e-01	1.9040e+00
23	TAO130312	146.4502	147.4522	146.8336	2.2307e-01	1.9040e+00
24	TRT020000	125.3451	126.3673	125.7640	2.4450e-01	1.9021e+00
25	TRT070000	136.8755	137.8906	137.4458	1.9766e-01	1.9031e+00
26	TRT100000	149.8953	150.5958	150.3054	1.7161e-01	1.9043e+00
27	TRT120000	146.8540	147.6564	147.3175	1.7304e-01	1.9040e+00
28	TRT125000	75.5785	230.5668	156.0144	3.3270e+01	1.9050e+00
29	TRT130000	149.2368	149.8378	149.5237	1.4307e-01	1.9043e+00
30	EMPTY	39.3761	40.0646	39.8030	1.9677e-01	1.9011e+00
31	TAF050136	100.5187	101.1415	100.8317	1.6828e-01	1.9006e+00
32	TAF070136	105.7638	106.5896	106.2002	1.9240e-01	1.9009e+00
33	TAF080136	132.9045	162.7262	143.6842	1.0612e+01	1.9037e+00
34	TAF090136	89.9285	91.0809	90.5888	2.6950e-01	1.9003e+00
35	TAF100136	115.3551	116.0758	115.6662	2.0844e-01	1.9014e+00
36	TAF105136	116.1891	117.4145	116.9919	2.4533e-01	1.9015e+00
37	TAF110136	118.5120	119.1274	118.8138	1.6594e-01	1.9016e+00
38	TAF115136	120.5469	121.3644	121.0679	2.2249e-01	1.9018e+00
39	TAF120136	132.6939	135.5156	133.9056	6.2689e-01	1.9027e+00
40	TAF125136	123.4762	124.5927	124.0025	2.8799e-01	1.9020e+00
41	TAF130136	125.1653	125.7774	125.4371	1.6673e-01	1.9021e+00
42	TAF120048	122.1209	123.0451	122.5954	2.4277e-01	1.9019e+00
43	TAF130048	125.2437	125.9581	125.6212	1.6520e-01	1.9021e+00
44	TAF120224	120.7885	121.7081	121.3340	2.0402e-01	1.9018e+00
45	TAF130224	123.4305	124.0449	123.7518	1.4634e-01	1.9019e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1262	2.0855e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.4082	2.6649e-01	1.9010e+00
48	TAI130048	138.8990	140.3116	139.6640	3.2483e-01	1.9033e+00
49	TAI130136	144.4761	145.3791	144.9682	2.0295e-01	1.9038e+00
50	TAI130224	144.9484	146.3569	145.6024	3.3290e-01	1.9038e+00
51	TAI130312	139.4448	140.2524	139.9115	1.9232e-01	1.9033e+00
52	TRR130000	119.6757	120.9009	120.3228	2.8527e-01	1.9017e+00
53	TSI000001	67.0501	67.7979	67.4793	1.9104e-01	1.9000e+00
54	TSI000002	75.4333	80.7141	77.7024	1.3021e+00	1.9000e+00
55	TSO000001	66.8542	67.8195	67.3670	2.4639e-01	1.9000e+00
56	TSO000002	74.7088	75.4526	75.1191	1.8204e-01	1.9000e+00
57	TAF020136	89.5274	90.3708	89.9556	2.0474e-01	1.9003e+00
58	TAF120312	120.1001	121.2267	120.6390	3.0868e-01	1.9017e+00
59	TAF130312	126.5017	128.1270	127.0274	2.8579e-01	1.9022e+00
60	EMPTY	1.2402	1.2500	1.2427	2.8334e-03	0.0000e+00
61	EMPTY	1.2451	1.2549	1.2492	2.0598e-03	0.0000e+00
62	EMPTY	1.2549	1.2598	1.2551	9.6655e-04	0.0000e+00
63	EMPTY	1.2646	1.2695	1.2655	1.8950e-03	0.0000e+00
64	EMPTY	0.7275	0.7324	0.7284	1.8950e-03	0.0000e+00
65	EMPTY	0.7520	0.7520	0.7520	0.0000e+00	0.0000e+00
66	EMPTY	0.7666	0.7715	0.7667	6.9053e-04	0.0000e+00
67	EMPTY	0.7861	0.7861	0.7861	0.0000e+00	0.0000e+00
68	EMPTY	0.7959	0.8008	0.8002	1.6028e-03	0.0000e+00
69	EMPTY	0.8154	0.8203	0.8162	1.8082e-03	0.0000e+00
70	EMPTY	0.8301	0.8350	0.8309	1.8082e-03	0.0000e+00
71	EMPTY	0.8496	0.8594	0.8545	9.8648e-04	0.0000e+00
72	EMPTY	0.8643	0.8691	0.8681	2.0432e-03	0.0000e+00
73	EMPTY	0.8838	0.8887	0.8885	9.6655e-04	0.0000e+00
74	EMPTY	0.8984	0.9033	0.9030	1.1714e-03	0.0000e+00
75	EMPTY	0.9180	0.9229	0.9209	2.4164e-03	0.0000e+00
76	EMPTY	0.9326	0.9375	0.9338	2.1065e-03	0.0000e+00
77	EMPTY	0.9521	0.9570	0.9525	1.3381e-03	0.0000e+00
78	EMPTY	0.9717	0.9766	0.9753	2.1635e-03	0.0000e+00
79	EMPTY	0.9912	0.9961	0.9958	1.1714e-03	0.0000e+00
80	PAN020136	68.2172	75.0836	69.9811	1.4108e+00	8.8742e-01
81	PAN050136	122.9642	124.7952	123.8248	4.8524e-01	1.7083e+00
82	PAN070136	92.7709	95.0597	93.9504	5.0354e-01	9.0115e-01
83	PAN080136	40.9289	45.4302	43.7044	1.1867e+00	8.7683e-01
84	PAN090136	30.3593	38.8280	34.7707	1.7838e+00	8.7433e-01
85	PAN100136	31.3276	38.8807	34.9867	1.8385e+00	8.7439e-01
86	PAN105136	14.5773	24.8770	19.7637	2.3081e+00	8.7140e-01
87	PAN110136	17.2814	28.1152	22.5381	2.8247e+00	8.7182e-01
88	PAN115136	14.8283	23.7547	19.7095	2.1682e+00	8.7139e-01
89	PAN120136	12.7433	25.0267	19.8356	3.0508e+00	8.7141e-01
90	PAN125136	10.0627	25.0927	16.3082	4.2248e+00	8.7095e-01
91	PAN130136	24.6584	38.3913	32.8234	3.6272e+00	8.7386e-01
92	PAN120048	26.7294	39.0127	33.1808	2.5683e+00	8.7395e-01
93	PAN130048	43.9748	54.6560	47.9207	2.3492e+00	8.7821e-01
94	PAN120224	23.9947	38.7194	30.2584	3.9245e+00	8.7328e-01
95	PAN130224	34.6978	48.8885	42.7422	3.9357e+00	8.7654e-01
96	PAN120312	25.2974	37.2756	32.9619	3.1546e+00	8.7389e-01
97	PAN130312	46.6099	57.0621	50.2369	2.9338e+00	8.7902e-01
98	PAB000136	40.2518	40.7095	40.4431	9.5526e-02	5.8875e-01
99	PAB100136	25.6315	26.0435	25.8439	9.0972e-02	5.8359e-01
100	PAB125136	21.9060	22.4553	22.2283	1.6748e-01	5.8266e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.7696	40.6241	40.2384	2.0090e-01	7.5672e-01
102	PRV000001	19.6068	19.7289	19.6532	5.9853e-02	7.5161e-01
103	PSR000001	18.6326	18.7546	18.6619	5.2663e-02	7.5145e-01
104	PFM000001	103.4211	105.5268	104.2194	4.8163e-01	5.6381e-01
105	PAN000136	530.5224	539.6777	534.6513	2.3605e+00	5.0983e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0195	0.0107	2.2058e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-7.6938	5.0027e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0092	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0042	1.9754e-03	0.0000e+00
112	VPW000001	144.4599	144.8505	144.6592	1.3375e-01	1.1872e+00
113	VPW000002	168.8815	169.2721	168.9790	1.0625e-01	1.2977e+00
114	VPW000003	207.8651	208.4510	208.1542	1.4890e-01	1.4886e+00
115	VPW000004	148.1483	148.7342	148.4530	1.2577e-01	1.2039e+00
116	VPW000005	197.5549	198.1408	197.8009	1.4664e-01	1.4369e+00
117	VPW000006	209.0933	209.6792	209.4371	1.5565e-01	1.4951e+00
118	IPW000001	761.4515	771.2133	767.8166	2.7273e+00	1.0119e+01
119	IPW000002	1831.7166	1851.2292	1839.2880	6.4130e+00	1.6636e+01
120	IPW000003	1876.6874	1880.5874	1877.8969	1.1066e+00	1.6903e+01
121	IPW000004	536.8088	538.2737	537.4922	3.6911e-01	4.6936e+00
122	IPW000005	356.3252	357.7899	356.9696	4.1193e-01	3.4573e+00
123	IPW000006	371.2159	373.1690	372.2609	4.0685e-01	3.5565e+00
124	EMPTY	-0.0244	-0.0098	-0.0181	3.9766e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0125	2.6396e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0136	3.4583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	2.9080e-03	0.0000e+00
128	IHT000001	181.4341	184.5591	183.1567	6.6227e-01	4.4905e+00
129	IHT000002	187.0718	189.4156	188.4781	5.8127e-01	4.5125e+00
130	IHT000003	188.5855	190.9292	189.7887	5.8442e-01	4.5180e+00
131	IHT000004	185.3441	188.0784	186.6058	5.7074e-01	4.5047e+00
132	IHT000005	183.3872	185.9262	184.5161	5.6261e-01	4.4961e+00
133	IHT000006	177.6743	180.0180	178.8110	5.4059e-01	4.4730e+00
134	IHT000007	185.8774	188.2212	187.1117	5.6281e-01	4.5068e+00
135	IHT000008	183.8266	186.3657	185.0727	5.8513e-01	4.4984e+00
136	IHT000009	184.3487	186.8878	185.6807	5.9541e-01	4.5009e+00
137	IHT000010	187.3573	189.8963	188.5527	5.8346e-01	4.5128e+00
138	IHT000011	185.0473	187.3911	186.1840	5.0792e-01	4.5029e+00
139	IHT000012	181.6707	184.0144	182.9130	5.6187e-01	4.4895e+00
140	IHT000013	130.6077	132.5608	131.7601	5.1031e-01	4.3065e+00
141	IHT000014	181.2500	183.3984	182.4453	5.5051e-01	4.4876e+00
142	IHT000015	135.3027	137.4512	136.3457	4.9695e-01	4.3208e+00
143	IHT000016	125.8414	127.7945	126.8296	4.5405e-01	4.2917e+00
144	IHT000017	150.2329	153.3579	151.5298	6.8772e-01	4.3711e+00
145	IHT000018	151.9756	155.1006	153.3076	6.3343e-01	4.3773e+00
146	IHT000019	146.9163	149.2601	148.0258	5.5445e-01	4.3590e+00
147	IHT000020	151.7015	153.4593	152.3969	5.1473e-01	4.3741e+00
148	IHT000021	-2.8057	-0.0714	-1.4503	6.9856e-01	4.1000e+00
149	IHT000022	131.0584	133.2069	132.0233	5.6000e-01	4.3073e+00
150	IHT000023	148.7981	151.3371	149.9386	5.8840e-01	4.3656e+00
151	IHT000024	113.3902	115.9293	114.6675	5.7346e-01	4.2573e+00
152	IHT000025	147.6638	150.0075	148.9645	5.5749e-01	4.3622e+00
153	IHT000026	149.4403	151.7841	150.6396	5.5525e-01	4.3680e+00
154	IHT000027	127.5053	130.0443	128.8725	5.8925e-01	4.2978e+00
155	IHT000028	129.0490	132.5646	130.7208	6.3277e-01	4.3033e+00

Test: Aug01_10

sum2

Date: Wed Aug 1 15:24:20 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.9642	151.6752	149.7260	6.6321e-01	4.3648e+00
157	IHT000030	150.7662	154.0865	152.6138	6.4983e-01	4.3748e+00
158	IHT000031	149.0723	152.0020	150.7090	6.5897e-01	4.3682e+00
159	IHT000032	151.0742	153.6133	152.5117	6.3351e-01	4.3745e+00
160	IHT000033	150.8789	153.6133	152.4414	6.5197e-01	4.3742e+00
161	IHT000034	132.7749	135.3140	134.1655	5.5051e-01	4.3139e+00
162	IHT000035	175.2629	177.9973	176.6183	5.6415e-01	4.4642e+00
163	IHT000036	131.0622	133.6013	132.4450	5.5642e-01	4.3086e+00

Test: Aug01_10 dif Date: Wed Aug 1 15:24:20 1990 Page: 1

Velocity 1 = 0.045601 (ft/sec)

Velocity 2 = 0.001300 (ft/sec)

Pressure Drop = 0.156099 (psi)

Tsat in = 0.025696 (deg F) Tsat out = 0.311996 (deg F)

Phi inner = 1.829788 (kBtu/hr-ft2) Phi outer = 0.661301 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0382	0.0463
1	TRF000002	0.0548	0.0663
2	TFM000001	1.1492	1.3044
3	TIN000001	1.2164	1.3899
4	TRV000001	1.0991	1.2397
5	TSR000001	0.6250	0.4980
6	TAO020136	3.4075	4.0014
7	TAO050136	1.3775	1.0628
8	TAO070136	1.0025	0.7550
9	TAO080136	1.2398	0.8700
10	TAO090136	1.2815	0.8753
11	TAO100136	1.3359	0.9496
12	TAO105136	1.1211	0.7880
13	TAO110136	1.2246	0.8385
14	TAO115136	1.2285	0.8615
15	TAO120136	1.4221	0.9306
16	TAO125136	3.0215	2.3355
17	TAO130136	1.2624	0.8687
18	TAO120048	0.9195	0.9366
19	TAO130048	1.4057	0.9542
20	TAO120224	1.1635	0.7729
21	TAO130224	1.3836	0.9736
22	TAO120312	1.3325	0.8994
23	TAO130312	1.3470	0.9090
24	TRT020000	1.2051	0.9491
25	TRT070000	1.3214	0.9522
26	TRT100000	1.3311	0.8778
27	TRT120000	1.3164	0.8857
28	TRT125000	0.2030	0.1299
29	TRT130000	1.4120	0.9355
30	EMPTY	0.0413	0.1036
31	TAF050136	1.3112	1.2837
32	TAF070136	1.3446	1.2503
33	TAF080136	0.2528	0.1763
34	TAF090136	0.2513	0.2782
35	TAF100136	1.3326	1.1390
36	TAF105136	1.2968	1.0963
37	TAF110136	1.3333	1.1097
38	TAF115136	1.2759	1.0429
39	TAF120136	1.5377	1.1353
40	TAF125136	1.3424	1.0710
41	TAF130136	1.2964	1.0229
42	TAF120048	1.3438	1.0842
43	TAF130048	1.3830	1.0889
44	TAF120224	1.2978	1.0583
45	TAF130224	1.3576	1.0851

#	Name	Abs Diff	%Diff
46	EMPTY	0.0368	0.0966
47	EMPTY	0.0184	0.0467
48	TAI130048	1.2132	0.8612
49	TAI130136	1.1645	0.7969
50	TAI130224	1.2871	0.8762
51	TAI130312	1.2668	0.8973
52	TRR130000	0.1022	0.0850
53	TSI000001	0.0002	0.0003
54	TSI000002	0.5195	0.6641
55	TSO000001	0.0560	0.0831
56	TSO000002	0.0381	0.0507
57	TAF020136	1.2155	1.3332
58	TAF120312	1.4398	1.1794
59	TAF130312	1.3687	1.0660
60	EMPTY	0.0340	2.6631
61	EMPTY	0.0341	2.6572
62	EMPTY	0.0342	2.6526
63	EMPTY	0.0346	2.6613
64	EMPTY	0.0144	1.9386
65	EMPTY	0.0142	1.8533
66	EMPTY	0.0145	1.8561
67	EMPTY	0.0143	1.7866
68	EMPTY	0.0136	1.6712
69	EMPTY	0.0142	1.7100
70	EMPTY	0.0139	1.6454
71	EMPTY	0.0127	1.4645
72	EMPTY	0.0116	1.3186
73	EMPTY	0.0111	1.2339
74	EMPTY	0.0128	1.3977
75	EMPTY	0.0117	1.2546
76	EMPTY	0.0135	1.4251
77	EMPTY	0.0140	1.4485
78	EMPTY	0.0118	1.1954
79	EMPTY	0.0112	1.1122
80	PAN020136	0.3403	0.4887
81	PAN050136	1.1810	0.9630
82	PAN070136	0.5585	0.5980
83	PAN080136	0.1587	0.3644
84	PAN090136	0.1571	0.4498
85	PAN100136	0.0855	0.2450
86	PAN105136	0.4806	2.4923
87	PAN110136	0.8392	3.5898
88	PAN115136	0.6469	3.3936
89	PAN120136	0.0457	0.2309
90	PAN125136	1.2879	8.5744
91	PAN130136	0.0198	0.0604
92	PAN120048	0.6516	2.0031
93	PAN130048	0.3524	0.7408
94	PAN120224	1.1795	4.0562
95	PAN130224	0.6165	1.4219
96	PAN120312	0.4318	1.3274
97	PAN130312	0.1786	0.3568
98	PAB000136	0.0174	0.0430
99	PAB100136	0.0861	0.3320
100	PAB125136	0.1263	0.5650

Test: Aug01_10

dif

Date: Wed Aug 1 15:24:20 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0879	0.2189
102	PRV000001	0.0513	0.2617
103	PSR000001	0.0927	0.4943
104	PFM000001	0.3863	0.3720
105	PAN000136	4.3210	0.8148
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	3.8835
108	EMPTY	0.7168	8.5226
109	EMPTY	0.0001	1.0753
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	4.5455
112	VPW000001	0.1055	0.0730
113	VPW000002	0.0469	0.0277
114	VPW000003	0.1328	0.0638
115	VPW000004	0.0781	0.0526
116	VPW000005	0.0742	0.0375
117	VPW000006	0.0196	0.0094
118	IPW000001	16.3603	2.0863
119	IPW000002	7.3768	0.4027
120	IPW000003	17.4728	0.9392
121	IPW000004	3.5352	0.6534
122	IPW000005	1.2597	0.3516
123	IPW000006	1.7774	0.4798
124	EMPTY	0.0003	1.6854
125	EMPTY	0.0004	3.1008
126	EMPTY	0.0003	2.1583
127	EMPTY	0.0004	2.5157
128	IHT000001	0.3633	0.1987
129	IHT000002	0.2812	0.1494
130	IHT000003	0.3125	0.1649
131	IHT000004	0.2617	0.1404
132	IHT000005	0.2930	0.1590
133	IHT000006	0.3242	0.1816
134	IHT000007	0.2812	0.1505
135	IHT000008	0.2656	0.1437
136	IHT000009	0.2422	0.1306
137	IHT000010	0.1719	0.0913
138	IHT000011	0.1289	0.0693
139	IHT000012	0.1289	0.0705
140	IHT000013	0.1250	0.0950
141	IHT000014	0.0000	0.0000
142	IHT000015	0.1094	0.0803
143	IHT000016	0.1367	0.1079
144	IHT000017	0.1484	0.0978
145	IHT000018	0.0899	0.0586
146	IHT000019	0.0079	0.0053
147	IHT000020	0.0429	0.0281
148	IHT000021	0.0625	4.5035
149	IHT000022	0.0469	0.0355
150	IHT000023	0.0391	0.0261
151	IHT000024	0.0234	0.0204
152	IHT000025	0.0313	0.0210
153	IHT000026	0.0156	0.0104
154	IHT000027	0.1953	0.1518
155	IHT000028	0.0547	0.0419

Test: Aug01_10

dif

Date: Wed Aug 1 15:24:20 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0664	0.0443
157	IHT000030	0.0820	0.0537
158	IHT000031	0.0976	0.0647
159	IHT000032	0.0508	0.0333
160	IHT000033	0.0273	0.0179
161	IHT000034	0.0859	0.0641
162	IHT000035	0.0312	0.0177
163	IHT000036	0.0743	0.0561

Test: Aug01_11

sum1

Date: Wed Aug 1 15:41:43 1990

Page: 1

Velocity 1 = 19.9325 (ft/sec) (+/- 1.7209 %)
Velocity 2 = 13.4142 (ft/sec) (+/- 1.7033 %)
Pressure drop = 9.4293 (psi)
Tsat in = 267.6721 (deg F) Tsat out = 253.0119 (deg F)
Phi inner = 199.4649 (kBtu/hr-ft2) (+/- 1.2828 %)
Phi outer = 199.9801 (kBtu/hr-ft2) (+/- 1.3395 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.4106	82.8345	82.6649	1.4834e-01	1.9001e+00
1	TRF000002	82.6354	83.4784	82.9642	1.4849e-01	1.9001e+00
2	TFM000001	85.8118	86.6524	86.2319	1.7765e-01	1.9002e+00
3	TIN000001	85.2658	86.1081	85.5861	1.4591e-01	1.9002e+00
4	TRV000001	86.5034	87.3426	86.9223	2.0528e-01	1.9002e+00
5	TSR000001	127.1943	130.7370	129.2719	9.4064e-01	1.9024e+00
6	TAO020136	82.8559	86.2316	84.2832	8.0121e-01	1.9001e+00
7	TAO050136	137.7833	138.6902	138.2305	2.2091e-01	1.9031e+00
8	TAO070136	142.8289	144.1414	143.3787	2.8790e-01	1.9036e+00
9	TAO080136	153.4884	154.5828	153.9144	2.4514e-01	1.9047e+00
10	TAO090136	158.7402	160.0306	159.3044	3.0297e-01	1.9054e+00
11	TAO100136	152.2175	154.4099	152.9200	5.1717e-01	1.9046e+00
12	TAO105136	154.1902	156.1867	155.1331	4.6822e-01	1.9049e+00
13	TAO110136	159.0637	160.7401	159.6958	4.0844e-01	1.9054e+00
14	TAO115136	155.0400	157.1331	155.9133	4.8686e-01	1.9050e+00
15	TAO120136	166.8589	168.5375	167.5306	3.6125e-01	1.9064e+00
16	TAO125136	138.6439	140.0539	139.2973	3.3998e-01	1.9032e+00
17	TAO130136	158.6877	159.7664	159.1101	2.4718e-01	1.9053e+00
18	TAO120048	99.4872	100.6307	100.0236	3.0531e-01	1.9006e+00
19	TAO130048	161.0528	162.0418	161.4888	1.6625e-01	1.9056e+00
20	TAO120224	164.5670	166.3473	165.1412	4.0256e-01	1.9061e+00
21	TAO130224	154.6726	156.8456	155.1685	4.0716e-01	1.9049e+00
22	TAO120312	161.1701	163.2552	162.1634	4.8261e-01	1.9057e+00
23	TAO130312	161.6680	162.5603	161.9697	1.8121e-01	1.9057e+00
24	TRT020000	134.5119	135.5265	135.0152	2.1785e-01	1.9028e+00
25	TRT070000	149.5289	150.4339	149.9832	1.9944e-01	1.9043e+00
26	TRT100000	164.5781	165.4679	165.0523	2.1223e-01	1.9061e+00
27	TRT120000	162.8800	163.7720	163.2727	1.8451e-01	1.9059e+00
28	TRT125000	99.6771	252.5092	156.3330	3.2411e+01	1.9050e+00
29	TRT130000	164.8186	165.5111	165.1197	1.5469e-01	1.9061e+00
30	EMPTY	39.3761	40.2940	39.8214	2.0947e-01	1.9011e+00
31	TAF050136	104.1372	105.0684	104.6210	2.0825e-01	1.9008e+00
32	TAF070136	111.8234	112.6448	112.2142	2.1934e-01	1.9012e+00
33	TAF080136	149.8846	158.6900	154.3155	1.6923e+00	1.9048e+00
34	TAF090136	91.4992	92.6497	92.1225	2.3805e-01	1.9003e+00
35	TAF100136	123.4594	124.2774	123.9378	1.7340e-01	1.9020e+00
36	TAF105136	125.2194	126.1341	125.7470	2.3767e-01	1.9021e+00
37	TAF110136	127.7659	128.3756	128.0104	1.7053e-01	1.9023e+00
38	TAF115136	130.3057	131.3185	130.8001	2.1737e-01	1.9025e+00
39	TAF120136	145.8373	148.4320	146.8765	6.1665e-01	1.9040e+00
40	TAF125136	133.9626	135.3698	134.8359	3.1290e-01	1.9028e+00
41	TAF130136	136.0022	137.1134	136.6486	2.4393e-01	1.9030e+00
42	TAF120048	132.1581	133.4825	132.9364	3.0375e-01	1.9027e+00
43	TAF130048	136.4950	137.1014	136.7777	1.4725e-01	1.9030e+00
44	TAF120224	131.0635	131.9766	131.4737	2.2534e-01	1.9025e+00
45	TAF130224	134.2606	134.8705	134.6103	1.5918e-01	1.9028e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	1.9574e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5552	1.0668e-01	1.9011e+00
48	TAI130048	154.0462	155.2431	154.7004	3.0830e-01	1.9048e+00
49	TAI130136	160.1090	161.1995	160.6559	2.3625e-01	1.9055e+00
50	TAI130224	160.2600	161.7523	160.9247	3.5237e-01	1.9056e+00
51	TAI130312	154.5019	155.4007	154.9853	2.3463e-01	1.9049e+00
52	TRR130000	122.4283	124.1603	123.3904	3.5932e-01	1.9019e+00
53	TSI000001	66.8381	67.5855	67.1886	1.8802e-01	1.9000e+00
54	TSI000002	73.5294	77.3394	74.5378	8.5498e-01	1.9000e+00
55	TSO000001	66.6395	67.8178	67.0680	2.0437e-01	1.9000e+00
56	TSO000002	75.3460	76.3014	75.8514	2.0405e-01	1.9000e+00
57	TAF020136	90.4771	91.4246	90.9611	2.2522e-01	1.9003e+00
58	TAF120312	129.9924	131.3129	130.6262	3.4068e-01	1.9025e+00
59	TAF130312	138.1381	139.0465	138.5258	2.4131e-01	1.9032e+00
60	EMPTY	1.5088	1.5186	1.5129	2.4878e-03	0.0000e+00
61	EMPTY	1.5088	1.5234	1.5181	2.6562e-03	0.0000e+00
62	EMPTY	1.5186	1.5234	1.5218	2.3365e-03	0.0000e+00
63	EMPTY	1.5283	1.5430	1.5304	2.9742e-03	0.0000e+00
64	EMPTY	0.8398	0.8447	0.8433	2.2603e-03	0.0000e+00
65	EMPTY	0.8643	0.8691	0.8644	6.9053e-04	0.0000e+00
66	EMPTY	0.8740	0.8838	0.8789	9.8648e-04	0.0000e+00
67	EMPTY	0.8936	0.8984	0.8974	2.0432e-03	0.0000e+00
68	EMPTY	0.9082	0.9131	0.9094	2.1065e-03	0.0000e+00
69	EMPTY	0.9229	0.9277	0.9274	1.1714e-03	0.0000e+00
70	EMPTY	0.9375	0.9424	0.9408	2.3008e-03	0.0000e+00
71	EMPTY	0.9619	0.9619	0.9619	0.0000e+00	0.0000e+00
72	EMPTY	0.9717	0.9766	0.9749	2.3365e-03	0.0000e+00
73	EMPTY	0.9912	0.9961	0.9940	2.4344e-03	0.0000e+00
74	EMPTY	1.0059	1.0107	1.0092	2.3008e-03	0.0000e+00
75	EMPTY	1.0205	1.0303	1.0254	9.8648e-04	0.0000e+00
76	EMPTY	1.0352	1.0400	1.0398	9.6655e-04	0.0000e+00
77	EMPTY	1.0547	1.0596	1.0573	2.4583e-03	0.0000e+00
78	EMPTY	1.0742	1.0791	1.0790	6.9053e-04	0.0000e+00
79	EMPTY	1.0986	1.1035	1.0988	9.6655e-04	0.0000e+00
80	PAN020136	33.1983	41.1328	36.0776	1.9423e+00	8.7466e-01
81	PAN050136	59.3350	61.6238	60.6106	5.3373e-01	1.6868e+00
82	PAN070136	45.5449	47.8337	46.7351	4.6395e-01	8.7781e-01
83	PAN080136	17.9644	22.1605	20.6057	1.1889e+00	8.7152e-01
84	PAN090136	12.5829	20.2885	16.0008	1.7510e+00	8.7092e-01
85	PAN100136	10.8808	20.7227	16.1100	2.1333e+00	8.7093e-01
86	PAN105136	5.9561	14.2721	9.5190	1.9236e+00	8.7033e-01
87	PAN110136	5.6084	14.9163	10.8941	2.1190e+00	8.7043e-01
88	PAN115136	4.9101	12.4632	8.4577	1.4480e+00	8.7026e-01
89	PAN120136	4.1221	14.5744	10.3401	3.0670e+00	8.7038e-01
90	PAN125136	-0.5421	10.4442	4.6031	3.3127e+00	8.7008e-01
91	PAN130136	12.4514	24.5821	19.3911	3.5984e+00	8.7135e-01
92	PAN120048	8.9529	18.4896	14.1043	2.1663e+00	8.7071e-01
93	PAN130048	21.6207	31.0811	24.5321	2.2003e+00	8.7216e-01
94	PAN120224	5.4552	17.8912	11.6427	3.4363e+00	8.7049e-01
95	PAN130224	16.3873	26.6869	22.7349	2.8199e+00	8.7185e-01
96	PAN120312	8.4365	17.8206	14.2134	2.1840e+00	8.7073e-01
97	PAN130312	22.2721	29.5963	25.2643	2.0514e+00	8.7229e-01
98	PAB000136	39.9313	40.5722	40.2041	1.3078e-01	5.8864e-01
99	PAB100136	32.8642	33.1846	33.0198	9.1084e-02	5.8585e-01
100	PAB125136	31.0155	31.5648	31.3515	1.4196e-01	5.8527e-01

Test: Aug01_11

sum1

Date: Wed Aug 1 15:41:43 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4034	40.2579	39.8404	2.3922e-01	7.5658e-01
102	PRV0000001	19.3627	19.4847	19.3895	5.1081e-02	7.5156e-01
103	PSR0000001	28.8865	29.2527	29.1038	9.3227e-02	7.5352e-01
104	PFM0000001	60.2082	61.9477	61.1549	3.7571e-01	5.2285e-01
105	PAN000136	253.5754	268.2238	261.0552	3.6687e+00	4.9631e+00
106	PFM0000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0146	0.0097	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	3.8428	-9.0205	2.0879e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0062	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
112	VPW0000001	144.4599	145.0458	144.6396	1.4680e-01	1.1871e+00
113	VPW0000002	168.6862	169.0768	168.8814	1.1161e-01	1.2972e+00
114	VPW0000003	208.0604	208.4510	208.2597	1.2156e-01	1.4891e+00
115	VPW0000004	148.1483	148.7342	148.4843	1.3111e-01	1.2041e+00
116	VPW0000005	197.7502	198.3361	197.9845	1.3087e-01	1.4378e+00
117	VPW0000006	209.2886	209.6792	209.5387	1.4249e-01	1.4956e+00
118	IPW0000001	788.7844	794.6414	790.7367	1.6734e+00	1.0229e+01
119	IPW0000002	1792.6912	1804.3988	1797.0620	2.3508e+00	1.6345e+01
120	IPW0000003	1849.3875	1855.2374	1852.2734	1.5876e+00	1.6725e+01
121	IPW0000004	540.7151	542.6682	541.6036	4.6990e-01	4.7230e+00
122	IPW0000005	356.3252	357.7899	357.3212	3.5510e-01	3.4595e+00
123	IPW0000006	368.7744	370.7276	369.5558	6.1605e-01	3.5388e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.3944e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.8334e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0146	3.4173e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0167	3.2851e-03	0.0000e+00
128	IHT0000001	181.8247	184.7544	182.9887	6.9246e-01	4.4898e+00
129	IHT0000002	187.2671	189.8062	188.3765	6.2818e-01	4.5120e+00
130	IHT0000003	188.7808	191.1245	189.7926	5.8884e-01	4.5180e+00
131	IHT0000004	185.5394	188.0784	186.5980	6.1522e-01	4.5047e+00
132	IHT0000005	183.3872	185.7309	184.4536	5.4134e-01	4.4958e+00
133	IHT0000006	177.4790	179.8227	178.7094	5.0878e-01	4.4725e+00
134	IHT0000007	185.4868	188.2212	186.9985	5.2469e-01	4.5063e+00
135	IHT0000008	183.4360	186.1704	184.9164	4.5693e-01	4.4977e+00
136	IHT0000009	183.9581	186.8878	185.4776	4.8695e-01	4.5000e+00
137	IHT0000010	186.7713	189.8963	188.6034	6.1749e-01	4.5130e+00
138	IHT0000011	184.2661	187.5864	186.1176	6.1793e-01	4.5027e+00
139	IHT0000012	181.0847	184.2097	182.8583	6.5891e-01	4.4893e+00
140	IHT0000013	130.2171	132.9515	131.7054	6.2126e-01	4.3063e+00
141	IHT0000014	181.0547	183.7891	182.5430	6.2998e-01	4.4880e+00
142	IHT0000015	135.1074	137.4512	136.2207	5.5278e-01	4.3204e+00
143	IHT0000016	125.4507	127.9898	126.7476	5.6049e-01	4.2914e+00
144	IHT0000017	149.8423	152.7720	151.2446	7.6686e-01	4.3701e+00
145	IHT0000018	151.7803	154.7100	153.1123	7.1756e-01	4.3766e+00
146	IHT0000019	146.9163	149.4554	148.1117	6.1970e-01	4.3593e+00
147	IHT0000020	150.9202	153.8499	152.2797	6.0741e-01	4.3737e+00
148	IHT0000021	-3.0010	0.3193	-1.2159	7.3080e-01	4.1000e+00
149	IHT0000022	130.6678	133.2069	132.0780	5.2392e-01	4.3075e+00
150	IHT0000023	148.4075	151.3371	149.8878	5.7465e-01	4.3654e+00
151	IHT0000024	113.1949	115.7339	114.6480	5.3110e-01	4.2573e+00
152	IHT0000025	147.4685	150.2028	148.9410	5.2971e-01	4.3621e+00
153	IHT0000026	149.4403	152.1747	150.6357	5.1996e-01	4.3680e+00
154	IHT0000027	127.7006	130.4350	128.8452	5.1752e-01	4.2977e+00
155	IHT0000028	129.4396	131.9787	130.5529	6.4022e-01	4.3028e+00

Test: Aug01_11

sum1

Date: Wed Aug 1 15:41:43 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	150.8939	149.5620	6.5518e-01	4.3643e+00
157	IHT000030	150.7662	153.8912	152.3794	6.6942e-01	4.3740e+00
158	IHT000031	148.8770	152.1973	150.4434	6.5613e-01	4.3673e+00
159	IHT000032	150.6836	154.1992	152.2305	6.8213e-01	4.3735e+00
160	IHT000033	150.6836	154.0039	152.1719	6.8560e-01	4.3733e+00
161	IHT000034	132.5796	135.8999	133.9624	5.7296e-01	4.3133e+00
162	IHT000035	175.2629	178.5832	176.5323	5.8958e-01	4.4639e+00
163	IHT000036	131.0622	133.9919	132.2496	5.6337e-01	4.3080e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

8 of 11

Velocity 1 = 19.9061 (ft/sec) (+/- 1.7212 %)
 Velocity 2 = 13.4152 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 9.3503 (psi)
 Tsat in = 267.5825 (deg F) Tsat out = 253.0850 (deg F)
 Phi inner = 199.4749 (kBtu/hr-ft2) (+/- 1.2828 %)
 Phi outer = 200.1232 (kBtu/hr-ft2) (+/- 1.3393 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.1986	83.0464	82.7116	2.0576e-01	1.9001e+00
1	TRF000002	82.8462	83.2677	83.0359	1.2951e-01	1.9001e+00
2	TFM000001	86.7566	87.4916	87.1472	1.8728e-01	1.9002e+00
3	TIN000001	86.2133	86.8459	86.4790	1.3672e-01	1.9002e+00
4	TRV000001	87.4433	88.2815	87.9015	1.7815e-01	1.9002e+00
5	TSR000001	130.0266	132.2511	131.1483	5.8828e-01	1.9025e+00
6	TAO020136	92.9558	95.7807	94.4212	7.2501e-01	1.9004e+00
7	TAO050136	138.5858	139.5917	139.0291	2.1122e-01	1.9032e+00
8	TAO070136	143.9399	145.4533	144.5982	3.0110e-01	1.9037e+00
9	TAO080136	154.9756	155.6722	155.2901	1.9192e-01	1.9049e+00
10	TAO090136	159.5343	160.9227	160.0895	3.2429e-01	1.9055e+00
11	TAO100136	152.9159	154.6104	153.7690	4.0818e-01	1.9047e+00
12	TAO105136	155.0890	156.9845	156.0232	4.9146e-01	1.9050e+00
13	TAO110136	159.8535	161.4268	160.4835	3.5366e-01	1.9055e+00
14	TAO115136	155.8381	157.8291	156.6867	3.8356e-01	1.9051e+00
15	TAO120136	167.8460	169.3278	168.3837	3.8527e-01	1.9065e+00
16	TAO125136	139.8533	141.8649	140.7180	3.8297e-01	1.9034e+00
17	TAO130136	159.2749	160.8448	159.9491	2.9468e-01	1.9054e+00
18	TAO120048	100.3173	101.5655	100.9833	2.9385e-01	1.9006e+00
19	TAO130048	161.8424	163.0288	162.3699	2.2295e-01	1.9057e+00
20	TAO120224	165.4574	167.2355	166.1138	4.4488e-01	1.9062e+00
21	TAO130224	155.4623	157.0433	155.9585	2.9433e-01	1.9050e+00
22	TAO120312	162.2625	164.1475	162.9891	4.6815e-01	1.9058e+00
23	TAO130312	162.4585	163.3497	162.8597	1.8108e-01	1.9058e+00
24	TRT020000	135.2220	136.2365	135.6805	2.2372e-01	1.9029e+00
25	TRT070000	150.3337	151.5409	150.8207	2.4753e-01	1.9044e+00
26	TRT100000	165.3667	166.3553	165.8453	1.9810e-01	1.9062e+00
27	TRT120000	163.6709	164.4637	164.1234	1.6039e-01	1.9060e+00
28	TRT125000	93.4628	218.9612	155.6535	3.2828e+01	1.9049e+00
29	TRT130000	165.6089	166.2021	165.9721	1.4879e-01	1.9062e+00
30	EMPTY	39.3761	40.2940	39.8306	2.3864e-01	1.9011e+00
31	TAF050136	105.1678	105.7903	105.4505	1.7599e-01	1.9008e+00
32	TAF070136	112.6426	113.6697	113.2177	2.0930e-01	1.9013e+00
33	TAF080136	153.4545	156.5215	154.9538	7.1676e-01	1.9049e+00
34	TAF090136	92.2310	93.3813	92.8205	2.5148e-01	1.9004e+00
35	TAF100136	124.4810	125.4014	124.8820	1.9681e-01	1.9020e+00
36	TAF105136	126.0322	127.0425	126.6122	2.3704e-01	1.9022e+00
37	TAF110136	128.6778	129.3892	128.9788	1.7645e-01	1.9023e+00
38	TAF115136	131.3179	132.2301	131.7555	2.3020e-01	1.9026e+00
39	TAF120136	145.9397	150.8212	147.7544	8.4128e-01	1.9041e+00
40	TAF125136	135.0675	136.3752	135.7072	3.0251e-01	1.9029e+00
41	TAF130136	137.1114	138.0203	137.5437	2.3344e-01	1.9031e+00
42	TAF120048	133.2794	134.3994	133.7802	2.5847e-01	1.9027e+00
43	TAF130048	137.3015	138.0094	137.6655	1.8148e-01	1.9031e+00
44	TAF120224	131.9753	132.8884	132.3407	2.3431e-01	1.9026e+00
45	TAF130224	135.1761	135.7856	135.5294	1.7802e-01	1.9029e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	2.2855e-01	1.9010e+00
47	EMPTY	39.3761	39.6057	39.5184	1.1257e-01	1.9011e+00
48	TAI130048	154.6446	156.3394	155.5417	3.2094e-01	1.9049e+00
49	TAI130136	161.2970	162.0896	161.6177	1.8737e-01	1.9056e+00
50	TAI130224	161.1556	162.4477	161.8873	2.8455e-01	1.9057e+00
51	TAI130312	155.4003	156.4979	155.9310	2.3979e-01	1.9050e+00
52	TRR130000	120.6964	122.2276	121.4886	3.5799e-01	1.9018e+00
53	TSI000001	66.7318	67.2669	67.0185	1.7451e-01	1.9000e+00
54	TSI000002	72.5740	75.2232	73.5468	6.3661e-01	1.9000e+00
55	TSO000001	66.5309	67.2824	66.8660	1.8855e-01	1.9000e+00
56	TSO000002	75.3460	76.1959	75.7709	1.7430e-01	1.9000e+00
57	TAF020136	91.3193	92.3732	91.8717	2.0585e-01	1.9003e+00
58	TAF120312	131.0084	132.4292	131.4465	3.0528e-01	1.9025e+00
59	TAF130312	138.7419	140.2531	139.4644	2.6414e-01	1.9032e+00
60	EMPTY	1.5283	1.5430	1.5339	2.7919e-03	0.0000e+00
61	EMPTY	1.5332	1.5430	1.5385	1.9331e-03	0.0000e+00
62	EMPTY	1.5381	1.5479	1.5425	1.7784e-03	0.0000e+00
63	EMPTY	1.5479	1.5527	1.5510	2.3675e-03	0.0000e+00
64	EMPTY	0.8496	0.8545	0.8522	2.4583e-03	0.0000e+00
65	EMPTY	0.8691	0.8740	0.8739	6.9053e-04	0.0000e+00
66	EMPTY	0.8838	0.8887	0.8886	6.9053e-04	0.0000e+00
67	EMPTY	0.9033	0.9082	0.9059	2.4642e-03	0.0000e+00
68	EMPTY	0.9131	0.9277	0.9182	1.6972e-03	0.0000e+00
69	EMPTY	0.9326	0.9375	0.9354	2.4344e-03	0.0000e+00
70	EMPTY	0.9473	0.9521	0.9485	2.1635e-03	0.0000e+00
71	EMPTY	0.9668	0.9717	0.9713	1.3381e-03	0.0000e+00
72	EMPTY	0.9814	0.9863	0.9819	1.4797e-03	0.0000e+00
73	EMPTY	1.0010	1.0059	1.0011	6.9053e-04	0.0000e+00
74	EMPTY	1.0156	1.0205	1.0159	1.1714e-03	0.0000e+00
75	EMPTY	1.0303	1.0352	1.0344	1.8082e-03	0.0000e+00
76	EMPTY	1.0449	1.0498	1.0460	2.0432e-03	0.0000e+00
77	EMPTY	1.0645	1.0645	1.0645	0.0000e+00	0.0000e+00
78	EMPTY	1.0840	1.0938	1.0860	2.6267e-03	0.0000e+00
79	EMPTY	1.1035	1.1084	1.1078	1.6028e-03	0.0000e+00
80	PAN020136	33.0457	41.9721	35.2246	1.8529e+00	8.7445e-01
81	PAN050136	59.1824	61.3187	60.4763	4.0575e-01	1.6868e+00
82	PAN070136	45.0872	47.8337	46.2865	5.4996e-01	8.7766e-01
83	PAN080136	16.9726	22.1605	20.0701	1.2598e+00	8.7145e-01
84	PAN090136	12.1251	19.3730	16.2969	1.6390e+00	8.7095e-01
85	PAN100136	10.8808	21.5620	15.9772	2.3099e+00	8.7092e-01
86	PAN105136	5.4220	14.1195	9.4488	1.9538e+00	8.7032e-01
87	PAN110136	5.9136	16.4422	10.5996	2.7943e+00	8.7040e-01
88	PAN115136	4.4523	14.3705	8.1449	2.3767e+00	8.7024e-01
89	PAN120136	3.5118	15.1085	10.5415	3.0734e+00	8.7040e-01
90	PAN125136	-0.5421	15.4796	4.8137	4.4699e+00	8.7008e-01
91	PAN130136	12.6803	24.3532	19.8199	3.1969e+00	8.7141e-01
92	PAN120048	9.4107	18.9474	14.7375	2.7593e+00	8.7078e-01
93	PAN130048	21.1629	28.5634	23.9721	1.9865e+00	8.7206e-01
94	PAN120224	6.9048	18.1963	13.0648	2.7383e+00	8.7061e-01
95	PAN130224	15.8532	25.7714	20.4232	2.9713e+00	8.7150e-01
96	PAN120312	6.3002	17.0577	12.9286	2.9327e+00	8.7060e-01
97	PAN130312	22.5773	30.9696	26.6880	2.5826e+00	8.7255e-01
98	PAB000136	39.8398	40.3891	40.1437	1.2296e-01	5.8862e-01
99	PAB100136	32.8642	33.2304	33.0235	9.5324e-02	5.8585e-01
100	PAB125136	31.0613	31.5648	31.3909	1.4177e-01	5.8529e-01

Test: Aug01_11

sum2

Date: Wed Aug 1 15:41:43 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2813	40.2579	39.8282	2.0816e-01	7.5658e-01
102	PRV000001	19.6068	19.7289	19.6923	5.6508e-02	7.5161e-01
103	PSR000001	29.0085	29.2527	29.1355	9.8524e-02	7.5353e-01
104	PFM000001	60.1166	61.8561	60.9828	3.9420e-01	5.2273e-01
105	PAN000136	251.7443	269.1393	258.8671	3.8055e+00	4.9624e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.4230	3.7026e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7115e-03	0.0000e+00
112	VPW000001	144.4599	144.8505	144.6514	1.0799e-01	1.1872e+00
113	VPW000002	168.8815	169.2721	169.0611	9.5357e-02	1.2981e+00
114	VPW000003	208.0604	208.4510	208.2792	1.3462e-01	1.4892e+00
115	VPW000004	148.3436	148.9295	148.5546	1.3578e-01	1.2044e+00
116	VPW000005	197.5549	198.3361	197.9649	1.3235e-01	1.4377e+00
117	VPW000006	209.2886	209.8745	209.5543	1.2944e-01	1.4956e+00
118	IPW000001	786.8320	794.6414	790.3853	1.5118e+00	1.0227e+01
119	IPW000002	1794.6425	1802.4475	1797.7653	1.8490e+00	1.6350e+01
120	IPW000003	1849.3875	1857.1874	1852.5468	1.7122e+00	1.6727e+01
121	IPW000004	540.7151	542.6682	541.8184	3.2434e-01	4.7246e+00
122	IPW000005	355.8369	357.7899	357.0380	3.3026e-01	3.4577e+00
123	IPW000006	368.7744	370.2393	369.1945	3.9471e-01	3.5365e+00
124	EMPTY	-0.0293	-0.0146	-0.0192	3.6124e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	3.3366e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0154	3.9901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0169	3.4470e-03	0.0000e+00
128	IHT000001	181.4341	183.9731	183.0668	5.6601e-01	4.4901e+00
129	IHT000002	186.8765	189.6109	188.4429	5.7248e-01	4.5123e+00
130	IHT000003	188.5855	191.1245	189.9293	5.6032e-01	4.5186e+00
131	IHT000004	185.1488	188.0784	186.6331	5.5664e-01	4.5048e+00
132	IHT000005	183.1919	185.7309	184.5082	5.3643e-01	4.4960e+00
133	IHT000006	177.2836	180.2133	178.7446	5.6667e-01	4.4727e+00
134	IHT000007	185.4868	188.2212	187.0492	5.7318e-01	4.5065e+00
135	IHT000008	183.2407	185.9751	184.9125	5.1924e-01	4.4977e+00
136	IHT000009	183.9581	186.4971	185.3916	5.1541e-01	4.4997e+00
137	IHT000010	187.7479	190.0916	188.7284	4.9989e-01	4.5135e+00
138	IHT000011	185.2426	187.3911	186.0903	4.6120e-01	4.5026e+00
139	IHT000012	182.0613	184.4051	182.7919	5.0810e-01	4.4890e+00
140	IHT000013	130.8030	133.1468	131.7054	4.7003e-01	4.3063e+00
141	IHT000014	181.4453	184.1797	182.3633	5.3416e-01	4.4873e+00
142	IHT000015	135.3027	137.8418	136.0840	5.0686e-01	4.3199e+00
143	IHT000016	125.6460	127.9898	126.5327	5.1024e-01	4.2908e+00
144	IHT000017	149.4516	152.7720	151.2485	7.3292e-01	4.3701e+00
145	IHT000018	151.9756	154.7100	153.1123	5.7951e-01	4.3766e+00
146	IHT000019	147.5022	149.8460	148.4086	5.2757e-01	4.3603e+00
147	IHT000020	151.5061	153.6546	152.3812	5.1029e-01	4.3740e+00
148	IHT000021	-2.4151	0.1240	-1.2159	6.3627e-01	4.1000e+00
149	IHT000022	131.0584	133.0116	132.0702	4.9235e-01	4.3075e+00
150	IHT000023	148.9934	150.9465	149.9816	5.3585e-01	4.3657e+00
151	IHT000024	113.7808	115.9293	114.8081	5.0963e-01	4.2577e+00
152	IHT000025	148.0544	150.2028	149.1364	5.1480e-01	4.3628e+00
153	IHT000026	149.6357	151.7841	150.8974	4.6557e-01	4.3689e+00
154	IHT000027	127.5053	130.2396	128.9624	5.3701e-01	4.2980e+00
155	IHT000028	129.4396	132.1740	130.6232	6.3798e-01	4.3031e+00

Test: Aug01_11		sum2	Date: Wed Aug 1 15:41:43 1990		Page: 4	
#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.7455	151.0892	149.7612	6.1889e-01	4.3650e+00
157	IHT000030	151.3522	154.2819	152.5318	6.6376e-01	4.3745e+00
158	IHT000031	149.4629	152.3926	150.5918	6.2177e-01	4.3678e+00
159	IHT000032	151.0742	154.3945	152.3399	6.4264e-01	4.3739e+00
160	IHT000033	151.0742	154.3945	152.2773	6.4036e-01	4.3737e+00
161	IHT000034	132.5796	135.8999	133.9937	5.1230e-01	4.3134e+00
162	IHT000035	175.2629	178.3879	176.4620	5.4105e-01	4.4636e+00
163	IHT000036	130.8669	134.1872	132.3121	5.2645e-01	4.3082e+00

Test: Aug01_11 dif Date: Wed Aug 1 15:41:43 1990 Page: 1

Velocity 1 = 0.026402 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.079000 (psi)

Tsat in = 0.089600 (deg F) Tsat out = 0.073105 (deg F)

Phi inner = 0.009995 (kBtu/hr-ft2) Phi outer = 0.143097 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0467	0.0565
1	TRF000002	0.0717	0.0864
2	TFM000001	0.9153	1.0614
3	TIN000001	0.8929	1.0433
4	TRV000001	0.9792	1.1265
5	TSR000001	1.8764	1.4515
6	TAO020136	10.1380	12.0285
7	TAO050136	0.7986	0.5777
8	TAO070136	1.2195	0.8506
9	TAO080136	1.3757	0.8938
10	TAO090136	0.7851	0.4928
11	TAO100136	0.8490	0.5552
12	TAO105136	0.8901	0.5738
13	TAO110136	0.7877	0.4933
14	TAO115136	0.7734	0.4960
15	TAO120136	0.8531	0.5092
16	TAO125136	1.4207	1.0199
17	TAO130136	0.8390	0.5273
18	TAO120048	0.9597	0.9595
19	TAO130048	0.8811	0.5456
20	TAO120224	0.9726	0.5889
21	TAO130224	0.7900	0.5091
22	TAO120312	0.8257	0.5092
23	TAO130312	0.8900	0.5495
24	TRT020000	0.6653	0.4928
25	TRT070000	0.8375	0.5584
26	TRT100000	0.7930	0.4805
27	TRT120000	0.8507	0.5210
28	TRT125000	0.6795	0.4346
29	TRT130000	0.8524	0.5162
30	EMPTY	0.0092	0.0231
31	TAF050136	0.8295	0.7929
32	TAF070136	1.0035	0.8943
33	TAF080136	0.6383	0.4136
34	TAF090136	0.6980	0.7577
35	TAF100136	0.9442	0.7618
36	TAF105136	0.8652	0.6880
37	TAF110136	0.9684	0.7565
38	TAF115136	0.9554	0.7304
39	TAF120136	0.8779	0.5977
40	TAF125136	0.8713	0.6462
41	TAF130136	0.8951	0.6550
42	TAF120048	0.8438	0.6347
43	TAF130048	0.8878	0.6491
44	TAF120224	0.8670	0.6595
45	TAF130224	0.9191	0.6828

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1085
47	EMPTY	0.0368	0.0930
48	TAI130048	0.8413	0.5438
49	TAI130136	0.9618	0.5987
50	TAI130224	0.9626	0.5982
51	TAI130312	0.9457	0.6102
52	TRR130000	1.9018	1.5413
53	TSI000001	0.1701	0.2532
54	TSI000002	0.9910	1.3295
55	TSO000001	0.2020	0.3012
56	TSO000002	0.0805	0.1061
57	TAF020136	0.9106	1.0011
58	TAF120312	0.8203	0.6280
59	TAF130312	0.9386	0.6776
60	EMPTY	0.0210	1.3881
61	EMPTY	0.0204	1.3438
62	EMPTY	0.0207	1.3602
63	EMPTY	0.0206	1.3461
64	EMPTY	0.0089	1.0554
65	EMPTY	0.0095	1.0990
66	EMPTY	0.0097	1.1037
67	EMPTY	0.0085	0.9472
68	EMPTY	0.0088	0.9677
69	EMPTY	0.0080	0.8626
70	EMPTY	0.0077	0.8184
71	EMPTY	0.0094	0.9772
72	EMPTY	0.0070	0.7180
73	EMPTY	0.0071	0.7143
74	EMPTY	0.0067	0.6639
75	EMPTY	0.0090	0.8777
76	EMPTY	0.0062	0.5963
77	EMPTY	0.0072	0.6810
78	EMPTY	0.0070	0.6487
79	EMPTY	0.0090	0.8191
80	PAN020136	0.8530	2.3643
81	PAN050136	0.1343	0.2216
82	PAN070136	0.4486	0.9599
83	PAN080136	0.5356	2.5993
84	PAN090136	0.2961	1.8505
85	PAN100136	0.1328	0.8243
86	PAN105136	0.0702	0.7375
87	PAN110136	0.2945	2.7033
88	PAN115136	0.3128	3.6984
89	PAN120136	0.2014	1.9478
90	PAN125136	0.2106	4.5752
91	PAN130136	0.4288	2.2113
92	PAN120048	0.6332	4.4894
93	PAN130048	0.5600	2.2827
94	PAN120224	1.4221	12.2145
95	PAN130224	2.3117	10.1681
96	PAN120312	1.2848	9.0394
97	PAN130312	1.4237	5.6352
98	PAB000136	0.0604	0.1502
99	PAB100136	0.0037	0.0112
100	PAB125136	0.0394	0.1257

Test: Aug01_11

dif

Date: Wed Aug 1 15:41:43 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0122	0.0306
102	PRV000001	0.3028	1.5617
103	PSR000001	0.0317	0.1089
104	PFM000001	0.1721	0.2814
105	PAN000136	2.1881	0.8382
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0309
108	EMPTY	0.5975	6.6238
109	EMPTY	0.0003	4.8387
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	22.2222
112	VPW000001	0.0118	0.0082
113	VPW000002	0.1797	0.1064
114	VPW000003	0.0195	0.0094
115	VPW000004	0.0703	0.0473
116	VPW000005	0.0196	0.0099
117	VPW000006	0.0156	0.0074
118	IPW000001	0.3514	0.0444
119	IPW000002	0.7032	0.0391
120	IPW000003	0.2733	0.0148
121	IPW000004	0.2148	0.0397
122	IPW000005	0.2832	0.0793
123	IPW000006	0.3613	0.0978
124	EMPTY	0.0001	0.5236
125	EMPTY	0.0001	0.7576
126	EMPTY	0.0008	5.4794
127	EMPTY	0.0002	1.1976
128	IHT000001	0.0781	0.0427
129	IHT000002	0.0664	0.0353
130	IHT000003	0.1367	0.0720
131	IHT000004	0.0351	0.0188
132	IHT000005	0.0546	0.0296
133	IHT000006	0.0352	0.0197
134	IHT000007	0.0507	0.0271
135	IHT000008	0.0039	0.0021
136	IHT000009	0.0860	0.0464
137	IHT000010	0.1250	0.0663
138	IHT000011	0.0273	0.0147
139	IHT000012	0.0664	0.0363
140	IHT000013	0.0000	0.0000
141	IHT000014	0.1797	0.0984
142	IHT000015	0.1367	0.1004
143	IHT000016	0.2149	0.1695
144	IHT000017	0.0039	0.0026
145	IHT000018	0.0000	0.0000
146	IHT000019	0.2969	0.2005
147	IHT000020	0.1015	0.0667
148	IHT000021	0.0000	0.0000
149	IHT000022	0.0078	0.0059
150	IHT000023	0.0938	0.0626
151	IHT000024	0.1601	0.1396
152	IHT000025	0.1954	0.1312
153	IHT000026	0.2617	0.1737
154	IHT000027	0.1172	0.0910
155	IHT000028	0.0703	0.0538

Test: Aug01_11 dif Date: Wed Aug 1 15:41:43 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1992	0.1332
157	IHT000030	0.1524	0.1000
158	IHT000031	0.1484	0.0986
159	IHT000032	0.1094	0.0719
160	IHT000033	0.1054	0.0693
161	IHT000034	0.0313	0.0234
162	IHT000035	0.0703	0.0398
163	IHT000036	0.0625	0.0473

Velocity 1 = 14.0994 (ft/sec) (+/- 1.8621 %)
 Velocity 2 = 13.4142 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 2.1221 (psi)
 Tsat in = 267.4613 (deg F) Tsat out = 264.5535 (deg F)
 Phi inner = 199.3643 (kBtu/hr-ft2) (+/- 1.2829 %)
 Phi outer = 200.8415 (kBtu/hr-ft2) (+/- 1.3384 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.6226	83.0464	82.8896	1.6477e-01	1.9001e+00
1	TRF000002	83.0570	83.4784	83.2045	1.2229e-01	1.9001e+00
2	TFM000001	85.9169	86.6532	86.2706	1.9317e-01	1.9002e+00
3	TIN000001	85.2660	85.8982	85.6874	1.5359e-01	1.9002e+00
4	TRV000001	86.7141	87.4482	87.0745	2.0313e-01	1.9002e+00
5	TSR000001	139.6989	142.2056	141.1224	6.4555e-01	1.9034e+00
6	TAO020136	87.1797	95.5716	93.2174	2.2835e+00	1.9004e+00
7	TAO050136	155.6269	157.1124	156.2334	3.9067e-01	1.9050e+00
8	TAO070136	156.3018	159.9990	157.3217	9.7241e-01	1.9051e+00
9	TAO080136	177.5731	178.6458	178.1974	2.7293e-01	1.9079e+00
10	TAO090136	182.9262	184.6811	183.7102	3.7399e-01	1.9087e+00
11	TAO100136	176.0372	178.7796	177.0761	7.1798e-01	1.9077e+00
12	TAO105136	178.4489	180.9988	179.2651	6.0673e-01	1.9080e+00
13	TAO110136	184.8158	186.8478	185.3013	4.8929e-01	1.9089e+00
14	TAO115136	180.6322	182.7846	181.2935	4.4714e-01	1.9083e+00
15	TAO120136	194.2549	195.7089	194.6702	2.9041e-01	1.9104e+00
16	TAO125136	160.2232	161.9063	160.9842	3.5829e-01	1.9056e+00
17	TAO130136	185.5697	187.3025	186.0022	3.7068e-01	1.9090e+00
18	TAO120048	101.5649	102.6027	102.1792	3.0292e-01	1.9007e+00
19	TAO130048	188.2562	189.6118	188.7906	2.9511e-01	1.9095e+00
20	TAO120224	191.7008	193.4468	192.2364	3.5515e-01	1.9100e+00
21	TAO130224	180.4031	183.1168	181.2529	5.7393e-01	1.9083e+00
22	TAO120312	188.2234	190.1712	188.7534	3.9752e-01	1.9095e+00
23	TAO130312	188.3140	189.6736	188.7925	2.9726e-01	1.9095e+00
24	TRT020000	151.0544	152.2567	151.6516	2.1798e-01	1.9045e+00
25	TRT070000	171.6146	173.1998	172.2212	3.0594e-01	1.9070e+00
26	TRT100000	190.4854	191.5521	190.9740	1.8888e-01	1.9098e+00
27	TRT120000	191.1905	192.0640	191.5398	2.0553e-01	1.9099e+00
28	TRT125000	90.2408	454.1089	215.5731	6.8025e+01	1.9142e+00
29	TRT130000	192.2775	193.0532	192.6423	1.7350e-01	1.9101e+00
30	EMPTY	39.3761	40.2940	39.8352	2.3183e-01	1.9011e+00
31	TAF050136	112.0609	113.3951	112.6772	2.8862e-01	1.9012e+00
32	TAF070136	123.4504	124.4655	123.9254	2.4052e-01	1.9020e+00
33	TAF080136	163.5168	204.0993	177.1264	4.8836e+00	1.9077e+00
34	TAF090136	91.6047	92.4415	92.0606	2.3007e-01	1.9003e+00
35	TAF100136	139.3152	140.7290	140.2120	2.7114e-01	1.9033e+00
36	TAF105136	142.0950	143.4923	142.7261	2.8841e-01	1.9036e+00
37	TAF110136	145.3791	146.4801	145.8754	2.2066e-01	1.9039e+00
38	TAF115136	149.0079	150.2065	149.6710	2.6289e-01	1.9043e+00
39	TAF120136	169.4926	172.2367	170.4896	5.9660e-01	1.9068e+00
40	TAF125136	154.4921	156.0727	155.5117	3.5306e-01	1.9049e+00
41	TAF130136	157.5121	158.6047	158.0528	2.5541e-01	1.9052e+00
42	TAF120048	152.0048	153.2098	152.6883	2.9479e-01	1.9046e+00
43	TAF130048	157.6204	159.0113	158.1219	2.2167e-01	1.9052e+00
44	TAF120224	150.1788	151.6774	151.1100	2.6266e-01	1.9044e+00
45	TAF130224	155.0586	155.6601	155.4234	1.5508e-01	1.9049e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.9168	38.1491	2.9202e-01	1.9010e+00
47	EMPTY	39.3761	40.5234	39.6057	1.7957e-01	1.9011e+00
48	TAI130048	181.3040	183.1616	182.3019	4.0718e-01	1.9085e+00
49	TAI130136	188.8159	189.7871	189.3018	2.2109e-01	1.9096e+00
50	TAI130224	188.1416	189.7995	188.9769	3.8115e-01	1.9095e+00
51	TAI130312	181.9764	183.1506	182.5521	2.3449e-01	1.9085e+00
52	TRR130000	125.1763	127.0058	125.9167	4.2218e-01	1.9021e+00
53	TSI000001	66.6261	67.2674	66.8191	1.2942e-01	1.9000e+00
54	TSI000002	73.6361	77.1281	75.0470	9.2874e-01	1.9000e+00
55	TSO000001	66.1007	67.0666	66.5348	1.7875e-01	1.9000e+00
56	TSO000002	77.1486	77.9969	77.5475	2.1260e-01	1.9000e+00
57	TAF020136	93.3202	94.2675	93.8295	2.4999e-01	1.9004e+00
58	TAF120312	148.9548	150.4561	149.9034	3.3118e-01	1.9043e+00
59	TAF130312	159.9234	162.6977	160.8202	5.2264e-01	1.9055e+00
60	EMPTY	2.0410	2.0654	2.0469	5.3123e-03	0.0000e+00
61	EMPTY	2.0410	2.0557	2.0471	3.6326e-03	0.0000e+00
62	EMPTY	2.0410	2.0508	2.0473	2.7971e-03	0.0000e+00
63	EMPTY	2.0459	2.0557	2.0534	2.6488e-03	0.0000e+00
64	EMPTY	1.0693	1.0742	1.0694	6.9053e-04	0.0000e+00
65	EMPTY	1.0889	1.0938	1.0896	1.8082e-03	0.0000e+00
66	EMPTY	1.1035	1.1084	1.1036	6.9053e-04	0.0000e+00
67	EMPTY	1.1182	1.1230	1.1216	2.2603e-03	0.0000e+00
68	EMPTY	1.1328	1.1328	1.1328	0.0000e+00	0.0000e+00
69	EMPTY	1.1426	1.1523	1.1475	9.8648e-04	0.0000e+00
70	EMPTY	1.1572	1.1621	1.1618	1.1714e-03	0.0000e+00
71	EMPTY	1.1768	1.1816	1.1814	9.6655e-04	0.0000e+00
72	EMPTY	1.1914	1.1963	1.1918	1.3381e-03	0.0000e+00
73	EMPTY	1.2061	1.2109	1.2108	6.9053e-04	0.0000e+00
74	EMPTY	1.2207	1.2256	1.2247	1.8950e-03	0.0000e+00
75	EMPTY	1.2354	1.2402	1.2399	1.1714e-03	0.0000e+00
76	EMPTY	1.2500	1.2549	1.2503	1.1714e-03	0.0000e+00
77	EMPTY	1.2646	1.2695	1.2687	1.8950e-03	0.0000e+00
78	EMPTY	1.2842	1.2939	1.2891	1.3951e-03	0.0000e+00
79	EMPTY	1.3086	1.3135	1.3087	6.9053e-04	0.0000e+00
80	PAN020136	8.4790	18.3210	11.5338	2.5022e+00	8.7048e-01
81	PAN050136	10.9647	14.4742	13.1009	9.6702e-01	1.6803e+00
82	PAN070136	8.6949	15.8666	12.2625	1.7130e+00	8.7054e-01
83	PAN080136	-4.5423	6.5966	1.2652	2.3738e+00	8.7001e-01
84	PAN090136	-5.4225	11.4384	1.8239	3.9967e+00	8.7001e-01
85	PAN100136	-6.7431	10.1942	2.4381	4.6469e+00	8.7002e-01
86	PAN105136	-6.7850	10.0759	0.6079	4.3416e+00	8.7000e-01
87	PAN110136	-4.1572	10.7964	3.0526	4.3585e+00	8.7003e-01
88	PAN115136	-5.2370	7.7329	0.8817	3.2088e+00	8.7000e-01
89	PAN120136	-6.0250	9.6153	-0.0695	4.3419e+00	8.7000e-01
90	PAN125136	-5.9590	11.5123	2.4044	5.0229e+00	8.7002e-01
91	PAN130136	1.8465	16.0372	9.2119	3.0751e+00	8.7030e-01
92	PAN120048	-8.5947	6.3589	-1.0904	3.3713e+00	8.7000e-01
93	PAN130048	0.5635	18.0349	9.4396	3.8425e+00	8.7032e-01
94	PAN120224	-10.1087	8.8885	-4.6095	4.8167e+00	8.7008e-01
95	PAN130224	2.5781	16.2347	10.9765	2.9781e+00	8.7043e-01
96	PAN120312	-11.0948	2.1041	-5.8931	3.4717e+00	8.7012e-01
97	PAN130312	3.3512	17.6182	13.0207	3.6823e+00	8.7061e-01
98	PAB000136	39.8398	40.2975	40.0622	1.2545e-01	5.8858e-01
99	PAB100136	38.2200	38.6778	38.4397	1.3241e-01	5.8791e-01
100	PAB125136	37.6531	38.3855	38.1502	1.4564e-01	5.8779e-01

Test: Aug01_12

sum1

Date: Wed Aug 1 15:55:08 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1593	40.1358	39.6964	2.1358e-01	7.5654e-01
102	PRV0000001	19.9730	20.0951	20.0365	6.1605e-02	7.5167e-01
103	PSR0000001	36.8210	37.0652	36.9651	5.8828e-02	7.5567e-01
104	PFM0000001	30.1789	30.8198	30.4792	1.4451e-01	5.0577e-01
105	PAN000136	51.7016	69.0966	58.7512	4.2522e+00	4.9222e+00
106	PFM0000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0065	2.3365e-03	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.3298	3.7175e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0003	1.5314e-03	0.0000e+00
112	VPW0000001	144.4599	144.8505	144.6201	1.0206e-01	1.1870e+00
113	VPW0000002	169.0768	169.4674	169.2173	1.1189e-01	1.2988e+00
114	VPW0000003	208.2557	208.6463	208.4511	1.1161e-01	1.4901e+00
115	VPW0000004	148.3436	148.9295	148.6952	1.2478e-01	1.2050e+00
116	VPW0000005	198.1408	198.3361	198.2266	9.7935e-02	1.4390e+00
117	VPW0000006	209.6792	210.0698	209.7731	1.1327e-01	1.4968e+00
118	IPW0000001	790.7367	796.5938	792.4157	1.4227e+00	1.0237e+01
119	IPW0000002	1804.3988	1810.2526	1806.6234	1.5774e+00	1.6411e+01
120	IPW0000003	1847.4374	1851.3374	1849.1539	1.2232e+00	1.6704e+01
121	IPW0000004	540.7151	542.1799	541.2813	3.7382e-01	4.7207e+00
122	IPW0000005	355.8369	357.3016	356.5594	3.3069e-01	3.4546e+00
123	IPW0000006	368.7744	370.2393	369.4386	3.7899e-01	3.5381e+00
124	EMPTY	-0.0293	-0.0098	-0.0194	4.0059e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	3.0389e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.8066e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0168	2.9856e-03	0.0000e+00
128	IHT0000001	181.6294	184.3637	182.8207	6.2421e-01	4.4891e+00
129	IHT0000002	186.8765	189.8062	188.1617	5.9724e-01	4.5112e+00
130	IHT0000003	188.3902	190.9292	189.7183	5.8660e-01	4.5177e+00
131	IHT0000004	184.9534	188.0784	186.4535	6.3435e-01	4.5041e+00
132	IHT0000005	182.9966	185.7309	184.3364	5.7590e-01	4.4953e+00
133	IHT0000006	177.2836	179.8227	178.6664	5.9952e-01	4.4724e+00
134	IHT0000007	185.6821	188.2212	187.1078	5.9615e-01	4.5068e+00
135	IHT0000008	183.6313	186.7563	185.0336	5.8619e-01	4.4982e+00
136	IHT0000009	184.3487	187.0831	185.5596	6.1763e-01	4.5004e+00
137	IHT0000010	187.1620	189.7010	188.4472	5.4403e-01	4.5123e+00
138	IHT0000011	184.6567	187.1958	185.9731	5.5777e-01	4.5021e+00
139	IHT0000012	181.2801	184.0144	182.7997	5.7357e-01	4.4891e+00
140	IHT0000013	130.2171	132.7561	131.6976	5.5816e-01	4.3063e+00
141	IHT0000014	180.8594	183.5938	182.4570	5.6592e-01	4.4877e+00
142	IHT0000015	134.7168	137.2558	136.1816	5.6669e-01	4.3202e+00
143	IHT0000016	125.2554	127.5992	126.5327	5.1024e-01	4.2908e+00
144	IHT0000017	150.0376	152.7720	151.2602	5.8502e-01	4.3701e+00
145	IHT0000018	151.9756	155.1006	153.2998	6.3539e-01	4.3772e+00
146	IHT0000019	146.9163	148.8694	147.9008	5.0833e-01	4.3586e+00
147	IHT0000020	151.1155	153.0686	151.9008	4.7595e-01	4.3723e+00
148	IHT0000021	-2.8057	-0.0714	-1.6299	5.9253e-01	4.1000e+00
149	IHT0000022	130.4725	132.4256	131.4374	4.4012e-01	4.3055e+00
150	IHT0000023	148.6028	150.7512	149.5948	4.8302e-01	4.3644e+00
151	IHT0000024	113.3902	115.3433	114.3511	4.4440e-01	4.2565e+00
152	IHT0000025	147.6638	149.8122	148.7574	5.1297e-01	4.3615e+00
153	IHT0000026	149.4403	151.3935	150.3466	4.8127e-01	4.3670e+00
154	IHT0000027	127.5053	129.6537	128.3803	5.1485e-01	4.2963e+00
155	IHT0000028	129.0490	132.1740	130.3185	6.4507e-01	4.3021e+00

Test: Aug01_12

sum1

Date: Wed Aug 1 15:55:08 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.5502	151.2845	149.6674	6.1516e-01	4.3646e+00
157	IHT000030	151.1569	153.8912	152.5318	5.8920e-01	4.3745e+00
158	IHT000031	149.2676	151.6113	150.5684	5.6305e-01	4.3677e+00
159	IHT000032	150.8789	153.6133	152.3438	5.9875e-01	4.3739e+00
160	IHT000033	150.8789	153.6133	152.2773	5.9629e-01	4.3737e+00
161	IHT000034	132.9702	134.9234	133.9468	4.5847e-01	4.3133e+00
162	IHT000035	175.2629	177.8020	176.4855	5.3643e-01	4.4637e+00
163	IHT000036	131.2575	133.2106	132.2496	4.8140e-01	4.3080e+00

Test: Aug01_12

sum2

Date: Wed Aug 1 15:55:08 1990

Page: 1

Velocity 1 = 14.0720 (ft/sec) (+/- 1.8635 %)
Velocity 2 = 13.4150 (ft/sec) (+/- 1.7033 %)
Pressure drop = 2.0913 (psi)
Tsat in = 267.4858 (deg F) Tsat out = 264.5407 (deg F)
Phi inner = 201.6366 (kBtu/hr-ft2) (+/- 1.2811 %)
Phi outer = 200.9665 (kBtu/hr-ft2) (+/- 1.3390 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	82.6226	83.2583	82.9828	1.8783e-01	1.9001e+00
1	TRF000002	83.0570	83.4784	83.2930	1.3887e-01	1.9001e+00
2	TFM000001	86.5467	87.3883	86.9867	2.1080e-01	1.9002e+00
3	TIN000001	86.0030	86.6351	86.3551	1.5441e-01	1.9002e+00
4	TRV000001	87.2376	88.1809	87.7256	2.1017e-01	1.9002e+00
5	TSR000001	130.6364	134.3704	133.0048	1.1883e+00	1.9027e+00
6	TAO020136	86.6530	92.3265	88.7887	9.4777e-01	1.9002e+00
7	TAO050136	156.1225	157.8051	156.8456	4.0169e-01	1.9051e+00
8	TAO070136	157.8022	161.0952	159.1459	7.7835e-01	1.9053e+00
9	TAO080136	178.1572	179.5225	178.8077	2.7636e-01	1.9080e+00
10	TAO090136	183.9001	185.6543	184.5306	4.0804e-01	1.9088e+00
11	TAO100136	176.7242	179.3663	177.8147	6.2872e-01	1.9078e+00
12	TAO105136	179.1364	181.6844	180.0243	5.4503e-01	1.9081e+00
13	TAO110136	185.4931	187.4291	186.2238	5.2175e-01	1.9091e+00
14	TAO115136	181.3165	183.3705	181.9962	4.1887e-01	1.9084e+00
15	TAO120136	194.9336	196.5805	195.4628	3.8054e-01	1.9106e+00
16	TAO125136	159.2309	160.8186	159.8292	4.0846e-01	1.9054e+00
17	TAO130136	186.1463	187.1105	186.5935	2.0270e-01	1.9091e+00
18	TAO120048	103.9486	105.0891	104.6598	2.9671e-01	1.9008e+00
19	TAO130048	189.1267	190.4838	189.5060	2.8187e-01	1.9096e+00
20	TAO120224	192.1864	193.9314	192.8089	2.9801e-01	1.9101e+00
21	TAO130224	180.9869	183.6019	181.7634	4.9611e-01	1.9084e+00
22	TAO120312	188.8079	190.6575	189.3008	3.2404e-01	1.9096e+00
23	TAO130312	188.7999	190.4496	189.4312	3.4348e-01	1.9096e+00
24	TRT020000	151.6552	152.7577	152.2827	2.3056e-01	1.9046e+00
25	TRT070000	172.4075	173.8927	172.9362	3.3515e-01	1.9071e+00
26	TRT100000	191.2602	192.3263	191.7161	2.1571e-01	1.9100e+00
27	TRT120000	191.6747	192.5492	192.2207	1.9602e-01	1.9100e+00
28	TRT125000	77.7956	415.5490	272.0421	8.1331e+01	1.9273e+00
29	TRT130000	193.0516	193.8279	193.4805	1.7637e-01	1.9102e+00
30	EMPTY	39.3761	40.2940	39.8352	2.1247e-01	1.9011e+00
31	TAF050136	112.8831	113.9091	113.3727	2.6585e-01	1.9013e+00
32	TAF070136	124.1612	125.4810	124.8207	2.9383e-01	1.9020e+00
33	TAF080136	173.2100	181.2868	177.5526	1.9711e+00	1.9078e+00
34	TAF090136	93.5887	94.7378	94.2474	2.6461e-01	1.9004e+00
35	TAF100136	140.2245	141.4355	140.9771	2.7521e-01	1.9034e+00
36	TAF105136	142.7924	144.2890	143.5426	3.3206e-01	1.9036e+00
37	TAF110136	146.1800	147.1801	146.7091	2.4014e-01	1.9040e+00
38	TAF115136	149.9069	150.9054	150.4955	2.3461e-01	1.9044e+00
39	TAF120136	170.5720	173.5101	171.3665	6.1811e-01	1.9069e+00
40	TAF125136	155.3799	157.1600	156.2890	3.8488e-01	1.9050e+00
41	TAF130136	158.2074	159.6954	158.9002	3.0125e-01	1.9053e+00
42	TAF120048	152.7081	154.2150	153.5096	3.0592e-01	1.9047e+00
43	TAF130048	158.3163	159.7073	158.9621	2.7166e-01	1.9053e+00
44	TAF120224	151.0773	152.5752	151.8946	2.9290e-01	1.9045e+00
45	TAF130224	155.8599	156.7602	156.2622	2.0158e-01	1.9050e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1491	2.2086e-01	1.9010e+00
47	EMPTY	39.3761	39.8352	39.5598	1.0371e-01	1.9011e+00
48	TAI130048	182.2818	183.9433	183.0818	3.4124e-01	1.9086e+00
49	TAI130136	189.4955	190.5634	190.1416	2.6639e-01	1.9097e+00
50	TAI130224	189.1169	190.5794	189.7197	3.0932e-01	1.9096e+00
51	TAI130312	182.8573	183.9329	183.3640	2.3611e-01	1.9086e+00
52	TRR130000	125.0755	127.9190	127.0602	6.6531e-01	1.9022e+00
53	TSI000001	66.1999	66.8419	66.6129	1.7402e-01	1.9000e+00
54	TSI000002	72.6835	75.7550	73.8257	6.9954e-01	1.9000e+00
55	TSO000001	65.6709	66.8525	66.3391	2.5318e-01	1.9000e+00
56	TSO000002	77.1486	78.1032	77.6092	2.3318e-01	1.9000e+00
57	TAF020136	94.0575	95.1072	94.6138	2.2983e-01	1.9004e+00
58	TAF120312	149.9549	151.2566	150.6140	3.3895e-01	1.9044e+00
59	TAF130312	160.7171	163.3897	161.5871	6.0201e-01	1.9056e+00
60	EMPTY	2.0508	2.0752	2.0621	6.2732e-03	0.0000e+00
61	EMPTY	2.0557	2.0703	2.0623	4.2727e-03	0.0000e+00
62	EMPTY	2.0557	2.0654	2.0615	3.4173e-03	0.0000e+00
63	EMPTY	2.0605	2.0703	2.0671	2.8946e-03	0.0000e+00
64	EMPTY	1.0742	1.0791	1.0767	2.4662e-03	0.0000e+00
65	EMPTY	1.0938	1.0986	1.0975	2.1065e-03	0.0000e+00
66	EMPTY	1.1084	1.1182	1.1102	2.5648e-03	0.0000e+00
67	EMPTY	1.1230	1.1328	1.1279	9.8648e-04	0.0000e+00
68	EMPTY	1.1377	1.1426	1.1387	1.9730e-03	0.0000e+00
69	EMPTY	1.1523	1.1621	1.1547	2.6543e-03	0.0000e+00
70	EMPTY	1.1572	1.1719	1.1670	1.7086e-03	0.0000e+00
71	EMPTY	1.1816	1.1914	1.1866	1.2041e-03	0.0000e+00
72	EMPTY	1.1963	1.2012	1.1992	2.4164e-03	0.0000e+00
73	EMPTY	1.2109	1.2207	1.2163	1.7784e-03	0.0000e+00
74	EMPTY	1.2256	1.2354	1.2305	9.8648e-04	0.0000e+00
75	EMPTY	1.2451	1.2500	1.2455	1.3381e-03	0.0000e+00
76	EMPTY	1.2549	1.2598	1.2578	2.4164e-03	0.0000e+00
77	EMPTY	1.2744	1.2793	1.2746	9.6655e-04	0.0000e+00
78	EMPTY	1.2939	1.2988	1.2943	1.3381e-03	0.0000e+00
79	EMPTY	1.3086	1.3281	1.3146	2.8862e-03	0.0000e+00
80	PAN020136	8.1739	20.3809	12.1656	3.2334e+00	8.7053e-01
81	PAN050136	11.2698	14.6268	13.4091	8.6838e-01	1.6803e+00
82	PAN070136	8.9238	14.6459	11.8825	1.4167e+00	8.7051e-01
83	PAN080136	-5.0764	6.7492	1.3567	2.8184e+00	8.7001e-01
84	PAN090136	-5.1173	11.7436	2.9393	4.0061e+00	8.7003e-01
85	PAN100136	-7.3534	10.5756	0.5582	4.4747e+00	8.7000e-01
86	PAN105136	-6.5561	9.6945	0.7101	3.7797e+00	8.7000e-01
87	PAN110136	-4.9201	11.4068	4.5770	4.2412e+00	8.7008e-01
88	PAN115136	-6.4577	8.1144	-0.4473	3.5620e+00	8.7000e-01
89	PAN120136	-6.0250	12.3619	1.2535	4.3986e+00	8.7001e-01
90	PAN125136	-6.0353	13.9537	2.0885	5.0481e+00	8.7002e-01
91	PAN130136	-2.6548	12.9854	6.9872	2.9983e+00	8.7018e-01
92	PAN120048	-8.8999	6.6641	-1.7359	4.1133e+00	8.7001e-01
93	PAN130048	1.6317	16.7379	9.4106	3.3464e+00	8.7032e-01
94	PAN120224	-10.0324	4.6160	-4.8048	3.5153e+00	8.7008e-01
95	PAN130224	-1.0841	16.0821	9.9496	3.0048e+00	8.7036e-01
96	PAN120312	-9.1112	1.2648	-5.7191	2.6557e+00	8.7012e-01
97	PAN130312	4.1141	17.1604	13.0421	3.0122e+00	8.7061e-01
98	PAB000136	39.8855	40.3891	40.0787	1.3943e-01	5.8859e-01
99	PAB100136	38.2200	38.6778	38.4754	1.4270e-01	5.8792e-01
100	PAB125136	37.7904	38.3397	38.1420	1.2074e-01	5.8779e-01

Test: Aug01_12

sum2

Date: Wed Aug 1 15:55:08 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4034	40.2579	39.8356	2.2361e-01	7.5658e-01
102	PRV000001	19.7289	19.9730	19.8485	3.0104e-02	7.5164e-01
103	PSR000001	36.8210	37.0652	36.9553	5.6508e-02	7.5567e-01
104	PFM000001	29.9958	30.6367	30.3565	1.5410e-01	5.0573e-01
105	PAN000136	52.6171	67.7233	57.8998	4.2624e+00	4.9221e+00
106	PFM000002	27.5702	27.5702	27.5702	9.6336e-06	2.1154e-01
107	EMPTY	0.0049	0.0098	0.0066	2.3675e-03	0.0000e+00
108	EMPTY	-10.0000	-7.2021	-9.5352	7.4029e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	144.4599	145.2411	144.8389	1.4979e-01	1.1880e+00
113	VPW000002	169.0768	169.4674	169.1861	1.0559e-01	1.2987e+00
114	VPW000003	208.2557	208.6463	208.4706	1.2633e-01	1.4902e+00
115	VPW000004	148.3436	148.9295	148.6561	1.1838e-01	1.2048e+00
116	VPW000005	197.7502	198.5314	198.1954	1.5803e-01	1.4388e+00
117	VPW000006	209.4839	210.0698	209.7614	1.3141e-01	1.4967e+00
118	IPW000001	771.2133	779.0226	775.2350	1.9084e+00	1.0155e+01
119	IPW000002	1823.9115	1831.7166	1826.8381	1.9413e+00	1.6550e+01
120	IPW000003	1864.9874	1876.6874	1872.3972	3.4794e+00	1.6865e+01
121	IPW000004	535.3440	538.2737	536.7598	7.8454e-01	4.6884e+00
122	IPW000005	355.8369	357.3016	356.6181	3.9455e-01	3.4550e+00
123	IPW000006	370.2393	372.1924	371.3429	4.9136e-01	3.5505e+00
124	EMPTY	-0.0293	-0.0146	-0.0186	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.9660e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0145	2.9528e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	4.0204e-03	0.0000e+00
128	IHT000001	181.2387	183.9731	182.9028	6.5464e-01	4.4895e+00
129	IHT000002	186.6812	189.6109	188.2554	6.5365e-01	4.5115e+00
130	IHT000003	188.1949	190.7339	189.8277	6.0330e-01	4.5181e+00
131	IHT000004	185.1488	187.4925	186.4808	5.1553e-01	4.5042e+00
132	IHT000005	182.9966	185.3403	184.3989	5.0175e-01	4.4956e+00
133	IHT000006	177.2836	179.6274	178.6782	4.9128e-01	4.4724e+00
134	IHT000007	185.8774	188.0259	187.1156	4.5951e-01	4.5068e+00
135	IHT000008	183.6313	185.7797	185.0297	5.0588e-01	4.4982e+00
136	IHT000009	184.1534	186.4971	185.5831	5.1212e-01	4.5005e+00
137	IHT000010	187.1620	189.5057	188.4784	5.7833e-01	4.5125e+00
138	IHT000011	184.6567	187.1958	185.9926	5.2846e-01	4.5021e+00
139	IHT000012	181.6707	184.2097	182.8114	5.0895e-01	4.4891e+00
140	IHT000013	130.6077	133.1468	131.6429	4.6730e-01	4.3062e+00
141	IHT000014	181.2500	183.9844	182.4375	5.2026e-01	4.4876e+00
142	IHT000015	135.1074	137.2558	136.0762	5.1139e-01	4.3199e+00
143	IHT000016	125.6460	127.9898	126.6577	5.2894e-01	4.2912e+00
144	IHT000017	149.8423	152.5766	151.4087	6.7253e-01	4.3706e+00
145	IHT000018	151.9756	154.7100	153.2529	6.1411e-01	4.3771e+00
146	IHT000019	146.5257	149.6507	148.0609	6.2016e-01	4.3592e+00
147	IHT000020	150.5296	153.6546	152.0258	6.4187e-01	4.3728e+00
148	IHT000021	-3.3917	0.7099	-1.4581	7.9434e-01	4.1000e+00
149	IHT000022	130.4725	133.0116	131.7303	5.6794e-01	4.3064e+00
150	IHT000023	148.4075	150.9465	149.6144	5.2894e-01	4.3645e+00
151	IHT000024	113.1949	115.7339	114.3628	5.1974e-01	4.2565e+00
152	IHT000025	147.4685	150.0075	148.7809	5.1906e-01	4.3616e+00
153	IHT000026	149.0497	151.7841	150.5029	5.5265e-01	4.3675e+00
154	IHT000027	127.5053	130.0443	128.7085	5.7772e-01	4.2973e+00
155	IHT000028	128.2677	132.5646	130.5216	7.0499e-01	4.3027e+00

Test: Aug01_12

sum2

Date: Wed Aug 1 15:55:08 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.3783	151.2845	149.6049	6.5554e-01	4.3644e+00
157	IHT000030	150.3756	153.8912	152.3833	6.4482e-01	4.3740e+00
158	IHT000031	148.4863	151.6113	150.4395	6.2390e-01	4.3673e+00
159	IHT000032	150.4883	153.2227	152.2149	6.2808e-01	4.3734e+00
160	IHT000033	150.2930	153.2226	152.1250	6.5422e-01	4.3731e+00
161	IHT000034	132.3843	134.7281	133.9351	5.5441e-01	4.3132e+00
162	IHT000035	175.0676	177.6067	176.5363	6.1287e-01	4.4639e+00
163	IHT000036	130.8669	133.4059	132.2965	5.8719e-01	4.3082e+00

Test: Aug01_12 dif Date: Wed Aug 1 15:55:08 1990 Page: 1

Velocity 1 = 0.027400 (ft/sec)

Velocity 2 = 0.000800 (ft/sec)

Pressure Drop = 0.030800 (psi)

Tsat in = 0.024506 (deg F) Tsat out = 0.012787 (deg F)

Phi inner = 2.272293 (kBtu/hr-ft2) Phi outer = 0.125000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0932	0.1124
1	TRF000002	0.0885	0.1064
2	TFM000001	0.7161	0.8301
3	TIN000001	0.6677	0.7792
4	TRV000001	0.6511	0.7478
5	TSR000001	8.1176	5.7522
6	TAO020136	4.4287	4.7509
7	TAO050136	0.6122	0.3918
8	TAO070136	1.8242	1.1595
9	TAO080136	0.6103	0.3425
10	TAO090136	0.8204	0.4466
11	TAO100136	0.7386	0.4171
12	TAO105136	0.7592	0.4235
13	TAO110136	0.9225	0.4978
14	TAO115136	0.7027	0.3876
15	TAO120136	0.7926	0.4072
16	TAO125136	1.1550	0.7175
17	TAO130136	0.5913	0.3179
18	TAO120048	2.4806	2.4277
19	TAO130048	0.7154	0.3789
20	TAO120224	0.5725	0.2978
21	TAO130224	0.5105	0.2816
22	TAO120312	0.5474	0.2900
23	TAO130312	0.6387	0.3383
24	TRT020000	0.6311	0.4162
25	TRT070000	0.7150	0.4152
26	TRT100000	0.7421	0.3886
27	TRT120000	0.6809	0.3555
28	TRT125000	56.4690	26.1948
29	TRT130000	0.8382	0.4351
30	EMPTY	0.0000	0.0000
31	TAF050136	0.6955	0.6173
32	TAF070136	0.8953	0.7225
33	TAF080136	0.4262	0.2406
34	TAF090136	2.1868	2.3754
35	TAF100136	0.7651	0.5457
36	TAF105136	0.8165	0.5721
37	TAF110136	0.8337	0.5715
38	TAF115136	0.8245	0.5509
39	TAF120136	0.8769	0.5143
40	TAF125136	0.7773	0.4998
41	TAF130136	0.8474	0.5362
42	TAF120048	0.8213	0.5379
43	TAF130048	0.8402	0.5314
44	TAF120224	0.7846	0.5192
45	TAF130224	0.8388	0.5397

#	Name	Abs Diff	%Diff
46	EMPTY	0.0000	0.0000
47	EMPTY	0.0459	0.1159
48	TAI130048	0.7799	0.4278
49	TAI130136	0.8398	0.4436
50	TAI130224	0.7428	0.3931
51	TAI130312	0.8119	0.4448
52	TRR130000	1.1435	0.9081
53	TSI000001	0.2062	0.3086
54	TSI000002	1.2213	1.6274
55	TSO000001	0.1957	0.2941
56	TSO000002	0.0617	0.0796
57	TAF020136	0.7843	0.8359
58	TAF120312	0.7106	0.4740
59	TAF130312	0.7669	0.4769
60	EMPTY	0.0152	0.7426
61	EMPTY	0.0152	0.7425
62	EMPTY	0.0142	0.6936
63	EMPTY	0.0137	0.6672
64	EMPTY	0.0073	0.6826
65	EMPTY	0.0079	0.7250
66	EMPTY	0.0066	0.5980
67	EMPTY	0.0063	0.5617
68	EMPTY	0.0059	0.5208
69	EMPTY	0.0072	0.6275
70	EMPTY	0.0052	0.4476
71	EMPTY	0.0052	0.4402
72	EMPTY	0.0074	0.6209
73	EMPTY	0.0055	0.4542
74	EMPTY	0.0058	0.4736
75	EMPTY	0.0056	0.4516
76	EMPTY	0.0075	0.5999
77	EMPTY	0.0059	0.4650
78	EMPTY	0.0052	0.4034
79	EMPTY	0.0059	0.4508
80	PAN020136	0.6318	5.4778
81	PAN050136	0.3082	2.3525
82	PAN070136	0.3800	3.0989
83	PAN080136	0.0915	7.2321
84	PAN090136	1.1154	61.1547
85	PAN100136	1.8799	77.1051
86	PAN105136	0.1022	16.8120
87	PAN110136	1.5244	49.9378
88	PAN115136	1.3290	150.7315
89	PAN120136	1.3230	1903.5970
90	PAN125136	0.3159	13.1384
91	PAN130136	2.2247	24.1503
92	PAN120048	0.6455	59.1985
93	PAN130048	0.0290	0.3072
94	PAN120224	0.1953	4.2369
95	PAN130224	1.0269	9.3554
96	PAN120312	0.1740	2.9526
97	PAN130312	0.0214	0.1643
98	PAB000136	0.0165	0.0412
99	PAB100136	0.0357	0.0929
100	PAB125136	0.0082	0.0215

Test: Aug01_12

dif

Date: Wed Aug 1 15:55:08 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1392	0.3507
102	PRV000001	0.1880	0.9383
103	PSR000001	0.0098	0.0265
104	PFM000001	0.1227	0.4026
105	PAN000136	0.8514	1.4492
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.5385
108	EMPTY	1.2054	14.4709
109	EMPTY	0.0004	8.6956
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	66.6667
112	VPW000001	0.2188	0.1513
113	VPW000002	0.0312	0.0184
114	VPW000003	0.0195	0.0094
115	VPW000004	0.0391	0.0263
116	VPW000005	0.0312	0.0157
117	VPW000006	0.0117	0.0056
118	IPW000001	17.1807	2.1681
119	IPW000002	20.2147	1.1189
120	IPW000003	23.2433	1.2570
121	IPW000004	4.5215	0.8353
122	IPW000005	0.0587	0.0165
123	IPW000006	1.9043	0.5155
124	EMPTY	0.0008	4.1237
125	EMPTY	0.0013	8.9041
126	EMPTY	0.0020	12.1212
127	EMPTY	0.0005	2.9762
128	IHT000001	0.0821	0.0449
129	IHT000002	0.0937	0.0498
130	IHT000003	0.1094	0.0577
131	IHT000004	0.0273	0.0146
132	IHT000005	0.0625	0.0339
133	IHT000006	0.0118	0.0066
134	IHT000007	0.0078	0.0042
135	IHT000008	0.0039	0.0021
136	IHT000009	0.0235	0.0127
137	IHT000010	0.0312	0.0166
138	IHT000011	0.0195	0.0105
139	IHT000012	0.0117	0.0064
140	IHT000013	0.0547	0.0415
141	IHT000014	0.0195	0.0107
142	IHT000015	0.1054	0.0774
143	IHT000016	0.1250	0.0988
144	IHT000017	0.1485	0.0982
145	IHT000018	0.0469	0.0306
146	IHT000019	0.1601	0.1082
147	IHT000020	0.1250	0.0823
148	IHT000021	0.1718	10.5405
149	IHT000022	0.2929	0.2228
150	IHT000023	0.0196	0.0131
151	IHT000024	0.0117	0.0102
152	IHT000025	0.0235	0.0158
153	IHT000026	0.1563	0.1040
154	IHT000027	0.3282	0.2556
155	IHT000028	0.2031	0.1559

Test: Aug01_12 dif Date: Wed Aug 1 15:55:08 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0625	0.0418
157	IHT000030	0.1485	0.0974
158	IHT000031	0.1289	0.0856
159	IHT000032	0.1289	0.0846
160	IHT000033	0.1523	0.1000
161	IHT000034	0.0117	0.0087
162	IHT000035	0.0508	0.0288
163	IHT000036	0.0469	0.0355

Velocity 1 = 8.0591 (ft/sec) (+/- 3.0374 %)
Velocity 2 = 8.0802 (ft/sec) (+/- 1.9024 %)
Pressure drop = -2.5241 (psi)
Tsats in = 267.8051 (deg F) Tsats out = 271.2658 (deg F)
Phi inner = 200.8459 (kBtu/hr-ft2) (+/- 1.2818 %)
Phi outer = 201.9822 (kBtu/hr-ft2) (+/- 1.3380 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.5287	85.1635	84.7742	1.6199e-01	1.9001e+00
1	TRF000002	84.7419	85.1628	85.0576	1.2211e-01	1.9002e+00
2	TFM000001	86.7641	87.4999	87.1909	2.1266e-01	1.9002e+00
3	TIN000001	86.1103	86.9528	86.5253	1.5985e-01	1.9002e+00
4	TRV000001	87.4583	88.4014	87.9468	2.2354e-01	1.9002e+00
5	TSR000001	140.7137	143.1194	142.0032	5.7176e-01	1.9035e+00
6	TAO020136	92.4319	102.7665	98.4805	2.2741e+00	1.9005e+00
7	TAO050136	193.0542	195.5609	193.9674	5.4441e-01	1.9103e+00
8	TAO070136	194.5852	198.6693	195.7939	9.9239e-01	1.9106e+00
9	TAO080136	228.3411	229.4742	229.0419	2.3517e-01	1.9170e+00
10	TAO090136	238.2259	239.7295	239.0704	3.1461e-01	1.9192e+00
11	TAO100136	230.5736	233.1226	231.9388	5.8633e-01	1.9176e+00
12	TAO105136	236.7609	238.5536	237.6612	4.7369e-01	1.9188e+00
13	TAO110136	246.9319	248.7862	248.0350	4.0047e-01	1.9212e+00
14	TAO115136	242.4764	244.8248	243.8236	5.8099e-01	1.9202e+00
15	TAO120136	259.1482	260.6361	260.0652	3.6707e-01	1.9242e+00
16	TAO125136	209.7943	214.0978	211.5414	7.1647e-01	1.9134e+00
17	TAO130136	252.6053	253.9894	253.1945	3.1731e-01	1.9225e+00
18	TAO120048	113.8588	115.1946	114.4651	3.0397e-01	1.9013e+00
19	TAO130048	253.9703	254.9951	254.5570	2.1111e-01	1.9228e+00
20	TAO120224	257.0335	259.6371	258.7167	4.6712e-01	1.9238e+00
21	TAO130224	244.2576	246.2110	245.4091	4.1004e-01	1.9206e+00
22	TAO120312	250.4509	252.4155	251.3994	4.5984e-01	1.9220e+00
23	TAO130312	249.8343	251.2350	250.6279	2.7849e-01	1.9219e+00
24	TRT020000	190.3869	192.2378	191.1487	3.3267e-01	1.9099e+00
25	TRT070000	222.4567	224.1788	223.4769	3.9785e-01	1.9158e+00
26	TRT100000	247.9919	249.0189	248.5535	2.4639e-01	1.9214e+00
27	TRT120000	257.5199	258.5433	258.0466	2.4469e-01	1.9237e+00
28	TRT125000	266.5643	271.7979	269.4766	8.7748e-01	1.9266e+00
29	TRT130000	255.4099	256.5267	256.1934	2.3762e-01	1.9232e+00
30	EMPTY	39.3761	40.0646	39.8627	2.1569e-01	1.9011e+00
31	TAF050136	134.0403	136.3581	135.2119	5.5637e-01	1.9029e+00
32	TAF070136	153.4674	157.2362	155.2722	6.5803e-01	1.9049e+00
33	TAF080136	225.0761	227.9037	226.4401	7.1327e-01	1.9164e+00
34	TAF090136	98.9076	99.9481	99.5382	2.6108e-01	1.9006e+00
35	TAF100136	182.7635	185.4032	183.7006	5.2278e-01	1.9087e+00
36	TAF105136	187.1639	189.5757	187.9934	5.5933e-01	1.9094e+00
37	TAF110136	192.5560	194.8753	193.3394	5.0602e-01	1.9102e+00
38	TAF115136	198.3467	200.6599	199.3363	5.1163e-01	1.9112e+00
39	TAF120136	238.3938	244.8472	241.5822	1.3833e+00	1.9197e+00
40	TAF125136	208.8130	211.7619	209.9128	5.8208e-01	1.9131e+00
41	TAF130136	214.2278	216.0381	214.9807	4.3161e-01	1.9141e+00
42	TAF120048	203.0214	205.2505	203.8998	5.4891e-01	1.9120e+00
43	TAF130048	212.3804	215.8187	213.7006	7.1379e-01	1.9139e+00
44	TAF120224	200.8885	203.7770	202.1464	5.7384e-01	1.9117e+00
45	TAF130224	209.7781	212.0913	210.4472	5.2828e-01	1.9132e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	1.6883e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8719	1.2578e-01	1.9011e+00
48	TAI130048	250.5808	252.6357	251.5058	4.6934e-01	1.9221e+00
49	TAI130136	260.7996	262.1904	261.5132	3.4722e-01	1.9246e+00
50	TAI130224	257.7330	259.1318	258.3876	3.3938e-01	1.9238e+00
51	TAI130312	252.0432	253.8191	252.8827	4.0252e-01	1.9224e+00
52	TRR130000	138.2322	140.1403	139.2220	4.3924e-01	1.9032e+00
53	TSI000001	65.6764	66.4256	65.9528	1.5587e-01	1.9000e+00
54	TSI000002	72.2675	77.4545	74.0119	1.2367e+00	1.9000e+00
55	TSO000001	65.0207	65.8806	65.4402	1.9923e-01	1.9000e+00
56	TSO000002	81.8058	82.7557	82.2637	1.9263e-01	1.9001e+00
57	TAF020136	101.7051	104.4198	103.1654	6.5992e-01	1.9007e+00
58	TAF120312	197.9523	201.0437	199.4349	6.8563e-01	1.9113e+00
59	TAF130312	214.3834	217.9111	216.2237	8.1320e-01	1.9144e+00
60	EMPTY	3.3643	3.3984	3.3805	8.1011e-03	0.0000e+00
61	EMPTY	3.3594	3.3740	3.3677	4.4391e-03	0.0000e+00
62	EMPTY	3.3447	3.3594	3.3551	3.6433e-03	0.0000e+00
63	EMPTY	3.3447	3.3594	3.3513	3.5030e-03	0.0000e+00
64	EMPTY	1.6406	1.6504	1.6443	2.3261e-03	0.0000e+00
65	EMPTY	1.6553	1.6650	1.6600	2.6025e-03	0.0000e+00
66	EMPTY	1.6650	1.6748	1.6708	2.3531e-03	0.0000e+00
67	EMPTY	1.6797	1.6895	1.6832	2.4244e-03	0.0000e+00
68	EMPTY	1.6895	1.6943	1.6919	2.4662e-03	0.0000e+00
69	EMPTY	1.6992	1.7090	1.7032	2.3531e-03	0.0000e+00
70	EMPTY	1.7090	1.7188	1.7126	2.3778e-03	0.0000e+00
71	EMPTY	1.7285	1.7334	1.7301	2.3008e-03	0.0000e+00
72	EMPTY	1.7334	1.7432	1.7375	2.0598e-03	0.0000e+00
73	EMPTY	1.7480	1.7578	1.7526	1.8216e-03	0.0000e+00
74	EMPTY	1.7578	1.7627	1.7625	9.6655e-04	0.0000e+00
75	EMPTY	1.7725	1.7773	1.7741	2.3365e-03	0.0000e+00
76	EMPTY	1.7822	1.7871	1.7830	1.8082e-03	0.0000e+00
77	EMPTY	1.7920	1.8018	1.7969	9.8648e-04	0.0000e+00
78	EMPTY	1.8115	1.8164	1.8132	2.3365e-03	0.0000e+00
79	EMPTY	1.8311	1.8359	1.8312	6.9053e-04	0.0000e+00
80	PAN020136	-15.4010	11.3019	-1.7001	6.3469e+00	8.7001e-01
81	PAN050136	-33.8962	-12.2287	-24.0970	5.3261e+00	1.6811e+00
82	PAN070136	-25.9425	3.4307	-15.3773	8.4848e+00	8.7085e-01
83	PAN080136	-14.0028	6.2914	-5.9309	5.7233e+00	8.7013e-01
84	PAN090136	-13.1282	5.4875	-7.1712	3.9598e+00	8.7018e-01
85	PAN100136	-12.2363	-0.9448	-8.1271	3.4584e+00	8.7024e-01
86	PAN105136	-7.7768	5.8035	-2.3920	3.1210e+00	8.7002e-01
87	PAN110136	-5.1490	7.1343	1.2582	2.5668e+00	8.7001e-01
88	PAN115136	-7.6022	4.2234	-2.4889	2.7277e+00	8.7002e-01
89	PAN120136	-6.0250	6.3347	-2.7336	3.4365e+00	8.7003e-01
90	PAN125136	-3.2887	15.0981	2.8865	4.3054e+00	8.7003e-01
91	PAN130136	-6.0117	1.6176	-1.6310	1.1933e+00	8.7001e-01
92	PAN120048	-12.0279	6.4352	-2.0456	3.9409e+00	8.7002e-01
93	PAN130048	-5.0059	6.8959	-1.2812	2.5325e+00	8.7001e-01
94	PAN120224	-11.7872	4.8449	-2.6289	3.4765e+00	8.7002e-01
95	PAN130224	-11.0023	5.4009	-3.5163	2.8522e+00	8.7004e-01
96	PAN120312	-12.3918	3.2485	-4.9592	4.4252e+00	8.7009e-01
97	PAN130312	-8.0929	10.9043	-1.3180	3.6475e+00	8.7001e-01
98	PAB000136	39.7940	40.7095	40.2939	2.7323e-01	5.8868e-01
99	PAB100136	42.2941	42.8434	42.5449	1.1411e-01	5.8967e-01
100	PAB125136	42.5511	42.8258	42.6912	6.1631e-02	5.8974e-01

Test: Aug01_13

sum1

Date: Wed Aug 1 17:31:26 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9151	40.6241	39.9894	3.9995e-01	7.5663e-01
102	PRV000001	19.7289	19.8509	19.7679	5.7521e-02	7.5163e-01
103	PSR000001	42.1921	42.4363	42.3142	4.2716e-02	7.5742e-01
104	PFM000001	9.6711	10.1288	9.8579	1.1396e-01	5.0061e-01
105	PAN000136	-86.0853	-57.7039	-69.8804	8.1877e+00	4.9231e+00
106	PFM000002	9.8004	10.0521	9.9101	5.5519e-02	2.0153e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	8.5352	-9.2909	2.6743e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0042	1.9754e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.4599	145.4365	145.0576	2.1032e-01	1.1889e+00
113	VPW000002	169.0768	169.6627	169.4478	1.4363e-01	1.2999e+00
114	VPW000003	208.4510	209.4276	208.9159	1.9287e-01	1.4924e+00
115	VPW000004	148.3436	149.3201	148.9608	2.1014e-01	1.2062e+00
116	VPW000005	197.9455	198.9220	198.5665	1.8377e-01	1.4407e+00
117	VPW000006	209.4839	210.6558	210.2028	1.9104e-01	1.4989e+00
118	IPW000001	771.2133	779.0226	774.7274	1.8916e+00	1.0152e+01
119	IPW000002	1831.7166	1841.4729	1835.6189	2.2300e+00	1.6610e+01
120	IPW000003	1855.2374	1863.0374	1859.1764	1.6476e+00	1.6773e+01
121	IPW000004	536.3206	540.2268	538.9669	7.5186e-01	4.7042e+00
122	IPW000005	355.8369	358.7663	357.6434	4.9565e-01	3.4616e+00
123	IPW000006	369.7510	372.1924	371.0011	5.1411e-01	3.5483e+00
124	EMPTY	-0.0293	-0.0098	-0.0185	4.3326e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0124	2.6488e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0138	3.5141e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0151	3.3087e-03	0.0000e+00
128	IHT000001	181.0434	184.5591	182.4692	6.4144e-01	4.4877e+00
129	IHT000002	186.2906	189.8062	187.7398	6.5088e-01	4.5094e+00
130	IHT000003	188.1949	191.5152	189.4644	6.5107e-01	4.5166e+00
131	IHT000004	184.5628	187.8831	185.9535	6.6573e-01	4.5020e+00
132	IHT000005	182.4106	185.7309	183.7895	6.1436e-01	4.4931e+00
133	IHT000006	177.0883	179.8227	178.0961	5.6684e-01	4.4701e+00
134	IHT000007	185.6821	188.4165	186.6625	5.9384e-01	4.5049e+00
135	IHT000008	183.6313	186.1704	184.6274	5.8826e-01	4.4965e+00
136	IHT000009	183.9581	186.3018	185.1377	5.5518e-01	4.4986e+00
137	IHT000010	186.9666	189.3104	188.3144	5.5419e-01	4.5118e+00
138	IHT000011	184.2661	186.8051	185.6801	5.3169e-01	4.5009e+00
139	IHT000012	181.0847	183.4285	182.4364	4.8623e-01	4.4876e+00
140	IHT000013	130.2171	132.3655	131.3304	4.9795e-01	4.3052e+00
141	IHT000014	180.8594	183.2031	182.1563	5.2014e-01	4.4864e+00
142	IHT000015	134.5215	136.8652	135.8496	4.9126e-01	4.3192e+00
143	IHT000016	125.2554	127.4039	126.4429	4.6828e-01	4.2905e+00
144	IHT000017	150.0376	151.9907	151.0766	5.3151e-01	4.3695e+00
145	IHT000018	151.5850	154.3194	153.0576	6.1284e-01	4.3764e+00
146	IHT000019	147.1116	149.2601	147.9476	5.0074e-01	4.3588e+00
147	IHT000020	150.5296	153.0686	151.5297	5.0012e-01	4.3711e+00
148	IHT000021	-2.8057	0.3193	-1.5401	5.9874e-01	4.1000e+00
149	IHT000022	129.8866	132.4256	131.1913	4.9037e-01	4.3048e+00
150	IHT000023	148.2121	150.5559	149.1613	5.0841e-01	4.3629e+00
151	IHT000024	112.9996	115.3433	113.8980	5.2940e-01	4.2553e+00
152	IHT000025	147.6638	150.0075	148.5934	5.3022e-01	4.3610e+00
153	IHT000026	149.0497	151.7841	150.0849	5.3561e-01	4.3661e+00
154	IHT000027	127.1146	129.8490	128.2358	5.7292e-01	4.2959e+00
155	IHT000028	128.8537	131.9787	130.2755	5.6226e-01	4.3020e+00

Test: Aug01_13 sum1 Date: Wed Aug 1 17:31:26 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	150.8939	149.5463	5.1031e-01	4.3642e+00
157	IHT000030	151.3522	153.6959	152.2857	5.1037e-01	4.3737e+00
158	IHT000031	149.0723	151.4160	150.1543	4.6724e-01	4.3663e+00
159	IHT000032	150.8789	153.2227	151.9336	5.3233e-01	4.3725e+00
160	IHT000033	150.8789	153.2226	151.8789	5.3473e-01	4.3723e+00
161	IHT000034	132.1890	134.7281	133.6265	4.9404e-01	4.3123e+00
162	IHT000035	174.8723	177.2160	176.2042	5.4632e-01	4.4626e+00
163	IHT000036	130.4763	133.2106	132.0036	5.2894e-01	4.3073e+00

Velocity 1 = 8.0874 (ft/sec) (+/- 3.0226 %)
 Velocity 2 = 8.0998 (ft/sec) (+/- 1.9004 %)
 Pressure drop = -2.5684 (psi)
 Tsat in = 267.7455 (deg F) Tsat out = 271.2388 (deg F)
 Phi inner = 201.6906 (kBtu/hr-ft2) (+/- 1.2812 %)
 Phi outer = 201.1072 (kBtu/hr-ft2) (+/- 1.3392 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.3171	85.1635	84.8165	2.0837e-01	1.9001e+00
1	TRF000002	84.7419	85.3732	85.1375	1.2495e-01	1.9002e+00
2	TFM000001	87.0790	88.0240	87.5204	2.2152e-01	1.9002e+00
3	TIN000001	86.5316	87.0584	86.8263	1.3800e-01	1.9002e+00
4	TRV000001	87.6674	88.7159	88.2670	2.1070e-01	1.9002e+00
5	TSR000001	142.2168	144.3213	143.1470	5.0978e-01	1.9036e+00
6	TAO020136	86.8643	92.7473	89.2328	1.2783e+00	1.9002e+00
7	TAO050136	192.9584	195.1759	194.0276	5.2060e-01	1.9103e+00
8	TAO070136	194.7800	198.4746	196.1187	8.2360e-01	1.9107e+00
9	TAO080136	228.9072	229.7575	229.2400	1.9993e-01	1.9170e+00
10	TAO090136	238.5094	239.8241	239.2076	3.0504e-01	1.9192e+00
11	TAO100136	231.2345	233.2176	232.1524	4.7105e-01	1.9176e+00
12	TAO105136	237.2332	238.9314	238.0519	3.8666e-01	1.9189e+00
13	TAO110136	247.1175	249.1569	248.2155	3.7053e-01	1.9213e+00
14	TAO115136	242.2889	244.9187	243.7617	5.2466e-01	1.9202e+00
15	TAO120136	258.9628	260.7295	260.0598	3.7420e-01	1.9242e+00
16	TAO125136	211.7087	214.1926	212.6258	5.0426e-01	1.9137e+00
17	TAO130136	252.5178	254.1732	253.3370	3.3399e-01	1.9225e+00
18	TAO120048	115.6046	116.6317	116.1630	2.8071e-01	1.9014e+00
19	TAO130048	254.3426	255.4582	254.9230	2.4963e-01	1.9229e+00
20	TAO120224	258.3361	259.8228	259.0606	3.1363e-01	1.9239e+00
21	TAO130224	244.0717	246.7673	245.4375	5.5019e-01	1.9206e+00
22	TAO120312	250.4504	252.6021	251.5322	4.7172e-01	1.9221e+00
23	TAO130312	249.6488	251.0472	250.4175	3.1009e-01	1.9218e+00
24	TRT020000	190.5818	191.8483	191.2598	3.3456e-01	1.9099e+00
25	TRT070000	222.6475	224.4659	223.4135	3.9988e-01	1.9158e+00
26	TRT100000	248.1780	249.2049	248.7162	2.1818e-01	1.9214e+00
27	TRT120000	257.6142	259.1005	258.2716	3.2362e-01	1.9237e+00
28	TRT125000	269.2279	270.3318	269.7913	2.5840e-01	1.9267e+00
29	TRT130000	255.7821	256.8045	256.3553	2.6915e-01	1.9233e+00
30	EMPTY	39.3761	40.2940	39.8443	2.2216e-01	1.9011e+00
31	TAF050136	134.5430	136.4597	135.4399	4.6142e-01	1.9029e+00
32	TAF070136	153.9635	157.4324	155.6471	6.9726e-01	1.9049e+00
33	TAF080136	224.9826	227.9964	226.4162	6.1535e-01	1.9164e+00
34	TAF090136	99.9468	100.9862	100.4169	2.5478e-01	1.9006e+00
35	TAF100136	182.8607	184.7201	183.8004	3.8424e-01	1.9087e+00
36	TAF105136	186.9734	189.9662	188.0230	5.0278e-01	1.9094e+00
37	TAF110136	192.5578	195.2607	193.3725	5.5726e-01	1.9102e+00
38	TAF115136	198.3477	200.5628	199.4039	4.8083e-01	1.9112e+00
39	TAF120136	238.3953	244.5682	241.5208	1.3771e+00	1.9197e+00
40	TAF125136	208.7192	211.0039	209.9191	5.0839e-01	1.9131e+00
41	TAF130136	214.3225	216.5167	215.1087	4.4959e-01	1.9141e+00
42	TAF120048	202.9238	205.0560	203.9675	4.4569e-01	1.9121e+00
43	TAF130048	212.5708	215.1509	213.6836	6.0605e-01	1.9139e+00
44	TAF120224	201.2747	203.1036	202.1639	3.9173e-01	1.9117e+00
45	TAF130224	209.6816	212.7641	210.8998	6.6513e-01	1.9133e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1492	2.0568e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.8719	1.3405e-01	1.9011e+00
48	TAI130048	250.3003	252.9162	251.6871	5.0305e-01	1.9221e+00
49	TAI130136	260.9864	262.5605	261.7153	3.7037e-01	1.9246e+00
50	TAI130224	257.7325	259.5970	258.5759	4.0877e-01	1.9238e+00
51	TAI130312	252.5109	254.0061	253.2508	3.4541e-01	1.9225e+00
52	TRR130000	138.6345	140.3424	139.5419	3.8330e-01	1.9033e+00
53	TSI000001	65.5711	66.2119	65.8955	1.8053e-01	1.9000e+00
54	TSI000002	73.1153	76.6087	74.5781	7.5525e-01	1.9000e+00
55	TSO000001	65.0207	65.7731	65.3690	1.8612e-01	1.9000e+00
56	TSO000002	81.6992	82.6497	82.2533	1.9619e-01	1.9001e+00
57	TAF020136	102.3308	104.9412	103.4179	5.6440e-01	1.9008e+00
58	TAF120312	198.5329	201.6236	199.6224	7.4934e-01	1.9113e+00
59	TAF130312	214.0007	217.8157	216.1953	9.2657e-01	1.9143e+00
60	EMPTY	3.3496	3.3984	3.3777	1.1142e-02	0.0000e+00
61	EMPTY	3.3496	3.3789	3.3650	8.3333e-03	0.0000e+00
62	EMPTY	3.3350	3.3643	3.3518	8.1443e-03	0.0000e+00
63	EMPTY	3.3398	3.3594	3.3483	6.9622e-03	0.0000e+00
64	EMPTY	1.6357	1.6504	1.6431	2.8334e-03	0.0000e+00
65	EMPTY	1.6553	1.6650	1.6595	3.5582e-03	0.0000e+00
66	EMPTY	1.6650	1.6748	1.6700	3.4863e-03	0.0000e+00
67	EMPTY	1.6797	1.6846	1.6823	2.4583e-03	0.0000e+00
68	EMPTY	1.6846	1.6943	1.6904	2.7902e-03	0.0000e+00
69	EMPTY	1.6992	1.7090	1.7027	2.7971e-03	0.0000e+00
70	EMPTY	1.7090	1.7188	1.7123	2.5034e-03	0.0000e+00
71	EMPTY	1.7236	1.7334	1.7291	2.3428e-03	0.0000e+00
72	EMPTY	1.7334	1.7432	1.7373	2.4164e-03	0.0000e+00
73	EMPTY	1.7480	1.7529	1.7522	1.7115e-03	0.0000e+00
74	EMPTY	1.7578	1.7676	1.7623	1.6624e-03	0.0000e+00
75	EMPTY	1.7725	1.7773	1.7752	2.4484e-03	0.0000e+00
76	EMPTY	1.7822	1.7871	1.7833	2.0432e-03	0.0000e+00
77	EMPTY	1.7969	1.8018	1.7972	1.1714e-03	0.0000e+00
78	EMPTY	1.8115	1.8164	1.8145	2.4164e-03	0.0000e+00
79	EMPTY	1.8311	1.8359	1.8316	1.6028e-03	0.0000e+00
80	PAN020136	-11.5863	11.2256	0.0623	6.5658e+00	8.7000e-01
81	PAN050136	-33.5910	-12.5339	-26.4835	5.3157e+00	1.6813e+00
82	PAN070136	-25.3322	5.4143	-14.1826	6.6130e+00	8.7072e-01
83	PAN080136	-14.0028	2.0189	-7.8199	4.7677e+00	8.7022e-01
84	PAN090136	-13.1282	8.2341	-5.2943	4.5925e+00	8.7010e-01
85	PAN100136	-12.1600	-1.1736	-7.7929	3.0963e+00	8.7022e-01
86	PAN105136	-7.7768	4.7354	-3.0283	2.9212e+00	8.7003e-01
87	PAN110136	-5.6831	7.6684	0.2602	2.8428e+00	8.7000e-01
88	PAN115136	-7.6022	10.4032	-1.5536	2.7444e+00	8.7001e-01
89	PAN120136	-6.0250	5.7243	-3.5027	2.5712e+00	8.7004e-01
90	PAN125136	-1.7628	16.0137	2.1434	3.7307e+00	8.7002e-01
91	PAN130136	-4.7148	1.9991	-1.5669	1.3465e+00	8.7001e-01
92	PAN120048	-7.4503	7.8848	-1.2766	3.5347e+00	8.7001e-01
93	PAN130048	-5.9977	3.7679	-2.5569	1.5851e+00	8.7002e-01
94	PAN120224	-7.9725	7.8967	-1.1549	3.4546e+00	8.7000e-01
95	PAN130224	-14.1303	-1.7707	-6.1454	2.9089e+00	8.7014e-01
96	PAN120312	-11.6289	1.5700	-3.2396	2.6058e+00	8.7004e-01
97	PAN130312	-10.3817	7.6999	-3.5366	3.3655e+00	8.7004e-01
98	PAB000136	39.7482	40.7553	40.2536	2.9896e-01	5.8867e-01
99	PAB100136	42.3399	42.7976	42.4964	1.1738e-01	5.8965e-01
100	PAB125136	42.5511	42.8258	42.6720	7.3847e-02	5.8973e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2813	40.6241	40.0968	3.8082e-01	7.5667e-01
102	PRV000001	19.4847	19.8509	19.7289	4.2716e-02	7.5162e-01
103	PSR000001	42.1921	42.3142	42.2947	4.5206e-02	7.5742e-01
104	PFM000001	9.6711	10.1288	9.9274	1.1551e-01	5.0062e-01
105	PAN000136	-84.2542	-56.7884	-71.1072	8.1746e+00	4.9232e+00
106	PFM000002	9.7836	10.1192	9.9581	6.9558e-02	2.0154e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	9.9951	-8.5713	3.3802e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0039	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0098	0.0002	1.3811e-03	0.0000e+00
112	VPW000001	144.6552	145.4365	145.1592	1.6783e-01	1.1894e+00
113	VPW000002	169.0768	169.6627	169.4126	1.1189e-01	1.2997e+00
114	VPW000003	208.6463	209.2323	208.9042	1.1464e-01	1.4924e+00
115	VPW000004	148.5389	149.1248	148.9061	1.7487e-01	1.2060e+00
116	VPW000005	197.9455	198.7267	198.4727	1.3811e-01	1.4402e+00
117	VPW000006	209.8745	210.4605	210.1403	1.5160e-01	1.4986e+00
118	IPW000001	765.3563	771.2133	768.5190	1.8028e+00	1.0123e+01
119	IPW000002	1825.8628	1833.6678	1830.9359	1.6254e+00	1.6578e+01
120	IPW000003	1864.9874	1872.7874	1869.9403	1.3190e+00	1.6847e+01
121	IPW000004	532.9026	536.8088	534.6309	1.1257e+00	4.6732e+00
122	IPW000005	356.3252	357.7899	357.1356	3.6390e-01	3.4583e+00
123	IPW000006	368.7744	370.7276	369.8488	4.1853e-01	3.5408e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.6057e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0122	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0146	3.4173e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0146	3.4173e-03	0.0000e+00
128	IHT000001	181.4341	183.7778	182.4692	6.2670e-01	4.4877e+00
129	IHT000002	186.6812	188.8296	187.6773	5.3416e-01	4.5091e+00
130	IHT000003	188.3902	190.7339	189.5308	5.5854e-01	4.5169e+00
131	IHT000004	184.9534	187.2972	186.0316	6.2170e-01	4.5023e+00
132	IHT000005	182.8012	185.1450	183.8442	5.8873e-01	4.4933e+00
133	IHT000006	177.0883	179.4321	178.1743	5.9603e-01	4.4704e+00
134	IHT000007	185.4868	188.0259	186.7172	5.5699e-01	4.5051e+00
135	IHT000008	183.6313	185.5844	184.6743	4.6120e-01	4.4967e+00
136	IHT000009	183.9581	186.3018	185.1377	5.3664e-01	4.4986e+00
137	IHT000010	187.3573	189.8963	188.2597	5.6482e-01	4.5116e+00
138	IHT000011	184.4614	186.8051	185.5473	5.2372e-01	4.5003e+00
139	IHT000012	181.4754	183.6238	182.3309	4.9895e-01	4.4871e+00
140	IHT000013	130.2171	133.1468	131.3148	5.6619e-01	4.3052e+00
141	IHT000014	181.0547	183.9844	182.0625	5.5011e-01	4.4861e+00
142	IHT000015	134.7168	137.4512	135.8613	5.2794e-01	4.3192e+00
143	IHT000016	125.4507	127.9898	126.5288	5.6805e-01	4.2908e+00
144	IHT000017	149.8423	153.1626	151.4907	7.2990e-01	4.3709e+00
145	IHT000018	151.7803	154.5147	153.0029	6.6241e-01	4.3762e+00
146	IHT000019	146.9163	149.6507	148.1078	6.1289e-01	4.3593e+00
147	IHT000020	150.3343	153.0686	151.6508	5.5357e-01	4.3715e+00
148	IHT000021	-3.0010	0.5146	-1.3057	7.1837e-01	4.1000e+00
149	IHT000022	130.0819	132.6209	131.3710	5.6359e-01	4.3053e+00
150	IHT000023	148.4075	150.5559	149.2863	5.6255e-01	4.3633e+00
151	IHT000024	113.1949	115.1480	113.9683	5.1593e-01	4.2555e+00
152	IHT000025	147.8591	150.2028	148.7028	5.0600e-01	4.3613e+00
153	IHT000026	149.2450	151.5888	150.1357	4.4496e-01	4.3662e+00
154	IHT000027	127.5053	129.6537	128.3452	4.7882e-01	4.2962e+00
155	IHT000028	129.2443	132.5646	130.4552	6.7080e-01	4.3025e+00

Test: Aug01_13

sum2

Date: Wed Aug 1 17:31:26 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.5502	151.2845	149.7143	6.0741e-01	4.3648e+00
157	IHT000030	151.1569	154.2819	152.4224	6.3777e-01	4.3742e+00
158	IHT000031	149.0723	152.3926	150.2871	6.6532e-01	4.3668e+00
159	IHT000032	150.8789	154.1992	152.1524	6.5583e-01	4.3732e+00
160	IHT000033	150.8789	154.1992	152.0586	6.7883e-01	4.3729e+00
161	IHT000034	132.7749	135.1187	133.7046	5.1230e-01	4.3125e+00
162	IHT000035	175.0676	177.4113	176.2003	5.2793e-01	4.4626e+00
163	IHT000036	130.8669	133.2106	132.0231	5.1273e-01	4.3073e+00

Test: Aug01_13 dif Date: Wed Aug 1 17:31:26 1990 Page: 1

Velocity 1 = 0.028300 (ft/sec)
Velocity 2 = 0.019600 (ft/sec)
Pressure Drop = 0.044300 (psi)
Tsats in = 0.059601 (deg F) Tsats out = 0.027008 (deg F)
Phi inner = 0.844696 (kBtu/hr-ft2) Phi outer = 0.875000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0423	0.0499
1	TRF000002	0.0799	0.0939
2	TFM000001	0.3295	0.3779
3	TIN000001	0.3010	0.3479
4	TRV000001	0.3202	0.3641
5	TSR000001	1.1438	0.8055
6	TAO020136	9.2477	9.3904
7	TAO050136	0.0602	0.0310
8	TAO070136	0.3248	0.1659
9	TAO080136	0.1981	0.0865
10	TAO090136	0.1372	0.0574
11	TAO100136	0.2136	0.0921
12	TAO105136	0.3907	0.1644
13	TAO110136	0.1805	0.0728
14	TAO115136	0.0619	0.0254
15	TAO120136	0.0054	0.0021
16	TAO125136	1.0844	0.5126
17	TAO130136	0.1425	0.0563
18	TAO120048	1.6979	1.4833
19	TAO130048	0.3660	0.1438
20	TAO120224	0.3439	0.1329
21	TAO130224	0.0284	0.0116
22	TAO120312	0.1328	0.0528
23	TAO130312	0.2104	0.0840
24	TRT020000	0.1111	0.0581
25	TRT070000	0.0634	0.0284
26	TRT100000	0.1627	0.0655
27	TRT120000	0.2250	0.0872
28	TRT125000	0.3147	0.1168
29	TRT130000	0.1619	0.0632
30	EMPTY	0.0184	0.0462
31	TAF050136	0.2280	0.1686
32	TAF070136	0.3749	0.2414
33	TAF080136	0.0239	0.0106
34	TAF090136	0.8787	0.8828
35	TAF100136	0.0998	0.0543
36	TAF105136	0.0296	0.0157
37	TAF110136	0.0331	0.0171
38	TAF115136	0.0676	0.0339
39	TAF120136	0.0614	0.0254
40	TAF125136	0.0063	0.0030
41	TAF130136	0.1280	0.0595
42	TAF120048	0.0677	0.0332
43	TAF130048	0.0170	0.0080
44	TAF120224	0.0175	0.0087
45	TAF130224	0.4526	0.2151

#	Name	Abs Diff	%Diff
46	EMPTY	0.0460	0.1207
47	EMPTY	0.0000	0.0000
48	TAI130048	0.1813	0.0721
49	TAI130136	0.2021	0.0773
50	TAI130224	0.1883	0.0729
51	TAI130312	0.3681	0.1456
52	TRR130000	0.3199	0.2298
53	TSI000001	0.0573	0.0869
54	TSI000002	0.5662	0.7650
55	TSO000001	0.0712	0.1088
56	TSO000002	0.0104	0.0126
57	TAF020136	0.2525	0.2448
58	TAF120312	0.1875	0.0940
59	TAF130312	0.0284	0.0131
60	EMPTY	0.0028	0.0828
61	EMPTY	0.0027	0.0802
62	EMPTY	0.0033	0.0984
63	EMPTY	0.0030	0.0895
64	EMPTY	0.0012	0.0730
65	EMPTY	0.0005	0.0301
66	EMPTY	0.0008	0.0479
67	EMPTY	0.0009	0.0535
68	EMPTY	0.0015	0.0887
69	EMPTY	0.0005	0.0294
70	EMPTY	0.0003	0.0175
71	EMPTY	0.0010	0.0578
72	EMPTY	0.0002	0.0115
73	EMPTY	0.0004	0.0228
74	EMPTY	0.0002	0.0113
75	EMPTY	0.0011	0.0620
76	EMPTY	0.0003	0.0168
77	EMPTY	0.0003	0.0167
78	EMPTY	0.0013	0.0717
79	EMPTY	0.0004	0.0218
80	PAN020136	1.7624	103.6645
81	PAN050136	2.3865	9.9037
82	PAN070136	1.1947	7.7692
83	PAN080136	1.8890	31.8501
84	PAN090136	1.8769	26.1727
85	PAN100136	0.3342	4.1122
86	PAN105136	0.6363	26.6012
87	PAN110136	0.9980	79.3197
88	PAN115136	0.9353	37.5788
89	PAN120136	0.7691	28.1351
90	PAN125136	0.7431	25.7440
91	PAN130136	0.0641	3.9301
92	PAN120048	0.7690	37.5929
93	PAN130048	1.2757	99.5707
94	PAN120224	1.4740	56.0691
95	PAN130224	2.6291	74.7689
96	PAN120312	1.7196	34.6749
97	PAN130312	2.2186	168.3308
98	PAB000136	0.0403	0.1000
99	PAB100136	0.0485	0.1140
100	PAB125136	0.0192	0.0450

Test: Aug01_13

dif

Date: Wed Aug 1 17:31:26 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1074	0.2686
102	PRV000001	0.0390	0.1973
103	PSR000001	0.0195	0.0461
104	PFM000001	0.0695	0.7050
105	PAN000136	1.2268	1.7556
106	PFM000002	0.0480	0.4844
107	EMPTY	0.0000	0.0000
108	EMPTY	0.7196	7.7452
109	EMPTY	0.0003	7.1429
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	100.0000
112	VPW000001	0.1016	0.0700
113	VPW000002	0.0352	0.0208
114	VPW000003	0.0117	0.0056
115	VPW000004	0.0547	0.0367
116	VPW000005	0.0938	0.0472
117	VPW000006	0.0625	0.0297
118	IPW000001	6.2084	0.8014
119	IPW000002	4.6830	0.2551
120	IPW000003	10.7639	0.5790
121	IPW000004	4.3360	0.8045
122	IPW000005	0.5078	0.1420
123	IPW000006	1.1523	0.3106
124	EMPTY	0.0003	1.6216
125	EMPTY	0.0002	1.6129
126	EMPTY	0.0008	5.7971
127	EMPTY	0.0005	3.3113
128	IHT000001	0.0000	0.0000
129	IHT000002	0.0625	0.0333
130	IHT000003	0.0664	0.0350
131	IHT000004	0.0781	0.0420
132	IHT000005	0.0547	0.0298
133	IHT000006	0.0782	0.0439
134	IHT000007	0.0547	0.0293
135	IHT000008	0.0469	0.0254
136	IHT000009	0.0000	0.0000
137	IHT000010	0.0547	0.0290
138	IHT000011	0.1328	0.0715
139	IHT000012	0.1055	0.0578
140	IHT000013	0.0156	0.0119
141	IHT000014	0.0938	0.0515
142	IHT000015	0.0117	0.0086
143	IHT000016	0.0859	0.0679
144	IHT000017	0.4141	0.2741
145	IHT000018	0.0547	0.0357
146	IHT000019	0.1602	0.1083
147	IHT000020	0.1211	0.0799
148	IHT000021	0.2344	15.2198
149	IHT000022	0.1797	0.1370
150	IHT000023	0.1250	0.0838
151	IHT000024	0.0703	0.0617
152	IHT000025	0.1094	0.0736
153	IHT000026	0.0508	0.0338
154	IHT000027	0.1094	0.0853
155	IHT000028	0.1797	0.1379

Test: Aug01_13 dif Date: Wed Aug 1 17:31:26 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1680	0.1123
157	IHT000030	0.1367	0.0898
158	IHT000031	0.1328	0.0884
159	IHT000032	0.2188	0.1440
160	IHT000033	0.1797	0.1183
161	IHT000034	0.0781	0.0585
162	IHT000035	0.0039	0.0022
163	IHT000036	0.0195	0.0148

Test: Aug01_14

sum1

Date: Wed Aug 1 17:49:28 1990

Page: 1

Velocity 1 = 7.1015 (ft/sec) (+/- 3.6786 %)
Velocity 2 = 7.1088 (ft/sec) (+/- 2.0446 %)
Pressure drop = -2.9457 (psi)
Tsat in = 267.5906 (deg F) Tsat out = 271.5849 (deg F)
Phi inner = 200.2622 (kBtu/hr-ft2) (+/- 1.2823 %)
Phi outer = 200.9116 (kBtu/hr-ft2) (+/- 1.3389 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.7403	85.3750	85.0619	1.7223e-01	1.9002e+00
1	TRF000002	84.9524	85.5835	85.3731	1.4723e-01	1.9002e+00
2	TFM000001	87.3944	88.2348	87.8150	1.9097e-01	1.9002e+00
3	TIN000001	86.7424	87.4789	87.0959	1.6164e-01	1.9002e+00
4	TRV000001	88.0869	89.0311	88.5904	2.1692e-01	1.9002e+00
5	TSR000001	144.4203	146.7200	145.5406	4.9623e-01	1.9038e+00
6	TAO020136	93.7941	96.5142	95.1379	5.8464e-01	1.9004e+00
7	TAO050136	204.1022	206.7785	205.1440	6.2564e-01	1.9123e+00
8	TAO070136	206.5121	211.7184	208.9590	1.0494e+00	1.9130e+00
9	TAO080136	245.0191	246.6054	245.9259	3.3272e-01	1.9207e+00
10	TAO090136	255.5190	257.5632	256.6823	4.9587e-01	1.9233e+00
11	TAO100136	251.1289	253.4590	252.3181	5.6984e-01	1.9223e+00
12	TAO105136	257.4002	259.2637	258.2574	3.6604e-01	1.9237e+00
13	TAO110136	268.7837	270.0678	269.3691	2.9866e-01	1.9266e+00
14	TAO115136	263.3034	265.2522	264.2870	4.2040e-01	1.9253e+00
15	TAO120136	280.9519	282.0544	281.5947	2.4826e-01	1.9299e+00
16	TAO125136	223.3299	224.8474	224.1112	3.5791e-01	1.9159e+00
17	TAO130136	12.2798	274.0948	273.1591	3.6125e-01	1.9276e+00
18	TAO120048	11.4755	119.8072	119.1310	2.7673e-01	1.9016e+00
19	TAO130048	276.0255	276.7600	276.3779	1.9137e-01	1.9285e+00
20	TAO120224	279.5857	280.9620	280.2244	3.0644e-01	1.9295e+00
21	TAO130224	265.3136	267.1501	265.9235	3.4544e-01	1.9257e+00
22	TAO120312	272.2064	274.0534	273.3627	3.4560e-01	1.9277e+00
23	TAO130312	271.5124	272.4352	271.9664	2.4203e-01	1.9273e+00
24	TRT020000	202.4224	204.4512	203.1529	3.7605e-01	1.9119e+00
25	TRT070000	238.2729	240.9255	239.1714	4.9065e-01	1.9192e+00
26	TRT100000	267.3827	268.3990	267.8888	2.0714e-01	1.9262e+00
27	TRT120000	278.3973	279.9583	279.0955	3.2293e-01	1.9292e+00
28	TRT125000	286.7746	287.6853	287.2449	2.1164e-01	1.9315e+00
29	TRT130000	278.3029	280.4109	278.8059	4.2123e-01	1.9291e+00
30	EMPTY	39.3761	40.2940	39.8719	1.9318e-01	1.9011e+00
31	TAF050136	141.2826	144.4895	142.7989	6.3324e-01	1.9036e+00
32	TAF070136	164.5393	167.3914	165.7288	7.2880e-01	1.9062e+00
33	TAF080136	246.2300	251.7983	249.4127	1.1850e+00	1.9216e+00
34	TAF090136	101.0893	102.2323	101.7542	3.0166e-01	1.9007e+00
35	TAF100136	195.9173	198.8244	197.4915	5.6137e-01	1.9109e+00
36	TAF105136	200.8172	202.9203	201.9741	4.7064e-01	1.9117e+00
37	TAF110136	207.6536	209.2798	208.3795	3.2397e-01	1.9129e+00
38	TAF115136	213.8829	215.7906	214.8025	4.1130e-01	1.9141e+00
39	TAF120136	257.6732	261.5583	260.1166	7.0062e-01	1.9242e+00
40	TAF125136	225.8556	228.2035	227.1181	5.0966e-01	1.9166e+00
41	TAF130136	231.9661	233.8508	232.7997	4.5635e-01	1.9178e+00
42	TAF120048	219.7014	222.0961	220.7213	5.4431e-01	1.9152e+00
43	TAF130048	231.1963	233.1798	232.2244	4.3990e-01	1.9176e+00
44	TAF120224	217.3711	219.6568	218.3313	5.1186e-01	1.9148e+00
45	TAF130224	226.6533	228.4647	227.3854	5.1322e-01	1.9166e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1262	2.2353e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9637	1.3243e-01	1.9011e+00
48	TAI130048	269.7254	271.9419	270.7566	4.7047e-01	1.9270e+00
49	TAI130136	276.9313	278.1254	277.4490	2.9895e-01	1.9288e+00
50	TAI130224	276.9327	278.1317	277.5046	3.3740e-01	1.9288e+00
51	TAI130312	272.8556	274.7017	273.8710	4.0640e-01	1.9278e+00
52	TRR130000	142.0509	143.6545	142.7797	4.1928e-01	1.9036e+00
53	TSI000001	65.6786	66.6392	66.1611	1.8208e-01	1.9000e+00
54	TSI000002	73.7537	76.7167	74.9265	6.8578e-01	1.9000e+00
55	TSO000001	64.9120	65.8794	65.4200	2.2553e-01	1.9000e+00
56	TSO000002	83.3878	84.4422	83.9069	2.4645e-01	1.9001e+00
57	TAF020136	104.7321	108.3775	106.5330	6.3339e-01	1.9009e+00
58	TAF120312	214.7809	216.6922	215.5573	5.1730e-01	1.9142e+00
59	TAF130312	233.4509	235.9004	234.7285	5.4951e-01	1.9182e+00
60	EMPTY	3.8330	3.8623	3.8450	8.2068e-03	0.0000e+00
61	EMPTY	3.8184	3.8428	3.8295	6.9082e-03	0.0000e+00
62	EMPTY	3.8037	3.8281	3.8145	6.7629e-03	0.0000e+00
63	EMPTY	3.7988	3.8184	3.8082	5.9875e-03	0.0000e+00
64	EMPTY	1.8408	1.8506	1.8469	2.8862e-03	0.0000e+00
65	EMPTY	1.8555	1.8652	1.8620	2.8946e-03	0.0000e+00
66	EMPTY	1.8652	1.8750	1.8711	2.4164e-03	0.0000e+00
67	EMPTY	1.8799	1.8896	1.8834	2.6174e-03	0.0000e+00
68	EMPTY	1.8848	1.8945	1.8910	2.7971e-03	0.0000e+00
69	EMPTY	1.8994	1.9043	1.9021	2.4484e-03	0.0000e+00
70	EMPTY	1.9043	1.9141	1.9098	2.3428e-03	0.0000e+00
71	EMPTY	1.9238	1.9287	1.9268	2.4164e-03	0.0000e+00
72	EMPTY	1.9287	1.9385	1.9329	1.9754e-03	0.0000e+00
73	EMPTY	1.9434	1.9482	1.9470	2.1635e-03	0.0000e+00
74	EMPTY	1.9531	1.9580	1.9553	2.4484e-03	0.0000e+00
75	EMPTY	1.9629	1.9678	1.9674	1.3381e-03	0.0000e+00
76	EMPTY	1.9727	1.9775	1.9745	2.3941e-03	0.0000e+00
77	EMPTY	1.9873	1.9922	1.9874	6.9053e-04	0.0000e+00
78	EMPTY	2.0020	2.0068	2.0029	1.9730e-03	0.0000e+00
79	EMPTY	2.0166	2.0215	2.0208	1.7115e-03	0.0000e+00
80	PAN020136	-17.2320	4.6643	-8.4002	5.9486e+00	8.7025e-01
81	PAN050136	-37.8635	-12.2287	-25.9982	5.9331e+00	1.6813e+00
82	PAN070136	-25.8662	-0.3840	-13.0549	6.3534e+00	8.7061e-01
83	PAN080136	-14.0791	-1.7195	-7.9969	3.6395e+00	8.7023e-01
84	PAN090136	-13.2045	-2.9048	-9.1350	3.4247e+00	8.7030e-01
85	PAN100136	-7.8112	10.7282	-0.9142	4.8586e+00	8.7000e-01
86	PAN105136	-7.7005	0.5392	-2.0762	1.5599e+00	8.7002e-01
87	PAN110136	-4.9964	4.2352	-1.4274	1.8737e+00	8.7001e-01
88	PAN115136	-6.0763	-0.8120	-3.4716	1.3074e+00	8.7004e-01
89	PAN120136	-6.1013	0.0786	-3.2585	1.7571e+00	8.7004e-01
90	PAN125136	-4.7383	1.8993	-1.5538	1.4890e+00	8.7001e-01
91	PAN130136	-6.2406	1.2362	-3.0958	1.6812e+00	8.7003e-01
92	PAN120048	-10.7309	-2.6438	-6.6172	1.9916e+00	8.7016e-01
93	PAN130048	-8.0577	-0.7334	-4.3788	1.6152e+00	8.7007e-01
94	PAN120224	-9.1169	-2.5556	-6.2116	1.5353e+00	8.7014e-01
95	PAN130224	-10.5445	-3.2966	-6.5620	1.5530e+00	8.7015e-01
96	PAN120312	-10.4082	16.0658	-5.6627	4.2894e+00	8.7012e-01
97	PAN130312	-8.7795	-1.4553	-4.8550	1.7793e+00	8.7008e-01
98	PAB000136	39.7024	40.7095	40.1492	2.5201e-01	5.8862e-01
99	PAB100136	42.2941	42.6603	42.5102	9.0160e-02	5.8966e-01
100	PAB125136	42.7342	43.1462	42.9183	8.5510e-02	5.8984e-01

Test: Aug01_14

sum1

Date: Wed Aug 1 17:49:28 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1593	40.5021	39.8868	4.1485e-01	7.5660e-01
102	PRV000001	19.6068	19.8509	19.7484	5.1496e-02	7.5162e-01
103	PSR000001	42.5583	42.9246	42.7195	8.6984e-02	7.5757e-01
104	PFM000001	7.4738	7.7485	7.6295	7.4562e-02	5.0036e-01
105	PAN000136	-96.6138	-66.8592	-81.5534	8.4383e+00	4.9242e+00
106	PFM000002	7.5519	7.7197	7.6455	3.6526e-02	2.0091e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.2839e-03	0.0000e+00
108	EMPTY	-10.0000	-7.9443	-9.8077	5.0640e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0035	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8505	145.4365	145.1982	1.5429e-01	1.1896e+00
113	VPW000002	169.2721	169.8580	169.5337	1.1578e-01	1.3003e+00
114	VPW000003	208.8417	209.2323	209.0683	1.1409e-01	1.4932e+00
115	VPW000004	148.7342	149.3201	149.0819	1.2027e-01	1.2067e+00
116	VPW000005	198.5314	198.9220	198.7305	1.0052e-01	1.4415e+00
117	VPW000006	210.2652	210.6558	210.4137	1.0106e-01	1.5000e+00
118	IPW000001	777.0703	786.8320	782.3025	2.2809e+00	1.0188e+01
119	IPW000002	1812.2039	1818.0577	1814.3510	1.2621e+00	1.6464e+01
120	IPW000003	1851.3374	1857.1874	1853.7556	1.6972e+00	1.6735e+01
121	IPW000004	535.3440	537.2971	535.9883	3.7486e-01	4.6829e+00
122	IPW000005	354.8605	355.8369	355.1925	3.0306e-01	3.4458e+00
123	IPW000006	366.8213	369.7510	368.2277	7.0889e-01	3.5302e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.4173e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.3146e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0150	3.8002e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0158	2.7124e-03	0.0000e+00
128	IHT000001	180.8481	183.3872	182.3403	5.1108e-01	4.4872e+00
129	IHT000002	186.4859	188.6343	187.5992	4.0289e-01	4.5088e+00
130	IHT000003	188.1949	190.3433	189.4254	4.5549e-01	4.5164e+00
131	IHT000004	184.5628	187.1019	185.9339	5.6839e-01	4.5019e+00
132	IHT000005	182.6059	184.7544	183.8012	5.0937e-01	4.4931e+00
133	IHT000006	177.0883	179.2368	178.1079	5.5424e-01	4.4701e+00
134	IHT000007	185.6821	187.8306	186.6860	4.7188e-01	4.5050e+00
135	IHT000008	183.6313	185.5844	184.5883	4.8528e-01	4.4964e+00
136	IHT000009	183.9581	186.1065	185.0323	5.2682e-01	4.4982e+00
137	IHT000010	187.1620	189.3104	188.1152	5.0167e-01	4.5110e+00
138	IHT000011	184.2661	186.6098	185.4887	5.2617e-01	4.5001e+00
139	IHT000012	180.8894	183.4285	182.2762	5.3851e-01	4.4869e+00
140	IHT000013	130.0218	132.3655	131.2445	5.2171e-01	4.3049e+00
141	IHT000014	180.8594	183.2031	181.9453	5.6794e-01	4.4856e+00
142	IHT000015	134.5215	136.8652	135.6816	5.5300e-01	4.3187e+00
143	IHT000016	125.2554	127.5992	126.3296	5.6806e-01	4.2902e+00
144	IHT000017	149.4516	152.1860	150.7563	6.0546e-01	4.3684e+00
145	IHT000018	151.7803	154.7100	152.9014	6.4574e-01	4.3758e+00
146	IHT000019	147.1116	149.4554	148.0140	5.1128e-01	4.3590e+00
147	IHT000020	150.5296	152.8733	151.4789	5.1146e-01	4.3709e+00
148	IHT000021	-2.4151	-0.0714	-1.3799	6.2546e-01	4.1000e+00
149	IHT000022	130.2772	132.4256	131.2343	5.1486e-01	4.3049e+00
150	IHT000023	147.8215	150.1653	149.1261	5.6143e-01	4.3628e+00
151	IHT000024	112.6089	114.7574	113.8081	5.2498e-01	4.2550e+00
152	IHT000025	147.6638	149.6169	148.5582	5.5396e-01	4.3608e+00
153	IHT000026	149.0497	151.0028	150.0381	5.4449e-01	4.3659e+00
154	IHT000027	127.1146	129.4584	128.2085	5.6221e-01	4.2958e+00
155	IHT000028	129.0490	131.9787	130.2247	7.4188e-01	4.3018e+00

Test: Aug01_14

sum1

Date: Wed Aug 1 17:49:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	150.8939	149.4721	7.0037e-01	4.3640e+00
157	IHT000030	151.1569	153.5006	152.1568	6.4554e-01	4.3732e+00
158	IHT000031	148.8770	151.6113	150.0527	6.4656e-01	4.3660e+00
159	IHT000032	150.6836	153.0274	151.7969	5.6393e-01	4.3720e+00
160	IHT000033	150.6836	153.0273	151.7500	5.7752e-01	4.3718e+00
161	IHT000034	132.3843	134.5327	133.4780	5.2793e-01	4.3118e+00
162	IHT000035	174.8723	177.2160	175.9738	5.1563e-01	4.4617e+00
163	IHT000036	130.8669	133.2106	131.8864	4.7399e-01	4.3069e+00

Test: Aug01_14

sum2

Date: Wed Aug 1 17:49:28 1990

Page: 1

Velocity 1 = 7.1099 (ft/sec) (+/- 3.6716 %)
Velocity 2 = 7.1243 (ft/sec) (+/- 2.0416 %)
Pressure drop = -2.8941 (psi)
Tsat in = 267.5403 (deg F) Tsat out = 271.4268 (deg F)
Phi inner = 199.7261 (kBtu/hr-ft2) (+/- 1.2828 %)
Phi outer = 200.5674 (kBtu/hr-ft2) (+/- 1.3392 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.7403	85.3750	85.1339	1.5996e-01	1.9002e+00
1	TRF000002	85.1628	85.7938	85.4657	1.2862e-01	1.9002e+00
2	TFM000001	87.3952	88.3402	87.9641	2.0776e-01	1.9002e+00
3	TIN000001	86.9530	87.5844	87.2664	1.3862e-01	1.9002e+00
4	TRV000001	88.2974	89.2399	88.7644	1.9743e-01	1.9002e+00
5	TSR000001	142.4200	145.2229	143.7756	7.7491e-01	1.9037e+00
6	TAO020136	95.1549	104.5330	98.7101	2.2836e+00	1.9006e+00
7	TAO050136	204.3898	206.7807	205.2077	5.5361e-01	1.9123e+00
8	TAO070136	207.2845	211.9109	209.1650	1.2656e+00	1.9130e+00
9	TAO080136	244.9265	246.1404	245.6526	2.9143e-01	1.9207e+00
10	TAO090136	255.5195	257.7498	256.8257	4.7954e-01	1.9234e+00
11	TAO100136	251.4080	253.3657	252.2681	4.5250e-01	1.9223e+00
12	TAO105136	257.3066	258.9847	258.2184	4.0523e-01	1.9237e+00
13	TAO110136	268.4172	270.2508	269.2912	3.8185e-01	1.9266e+00
14	TAO115136	263.3970	265.1586	264.1666	3.3843e-01	1.9252e+00
15	TAO120136	280.8606	281.9626	281.4536	2.4701e-01	1.9299e+00
16	TAO125136	223.5192	226.3634	224.8491	7.0795e-01	1.9161e+00
17	TAO130136	272.1875	274.0979	273.1476	3.5225e-01	1.9276e+00
18	TAO120048	118.4761	120.0111	119.0473	2.9397e-01	1.9016e+00
19	TAO130048	275.9346	276.8525	276.3803	1.8170e-01	1.9285e+00
20	TAO120224	279.5852	281.0543	280.2448	3.2012e-01	1.9295e+00
21	TAO130224	265.3136	266.7812	266.0399	2.8996e-01	1.9257e+00
22	TAO120312	272.4837	273.9607	273.2318	3.2968e-01	1.9276e+00
23	TAO130312	271.3283	272.4352	271.8692	2.5242e-01	1.9273e+00
24	TRT020000	202.4219	203.7751	203.1471	3.1007e-01	1.9119e+00
25	TRT070000	238.3679	239.9786	239.2337	3.7306e-01	1.9192e+00
26	TRT100000	267.0132	268.2141	267.7656	2.1906e-01	1.9262e+00
27	TRT120000	278.2137	279.5920	278.8735	3.0136e-01	1.9292e+00
28	TRT125000	286.5023	287.6870	287.0400	2.5376e-01	1.9315e+00
29	TRT130000	278.0280	280.2288	278.6761	4.3374e-01	1.9291e+00
30	EMPTY	39.3761	40.2940	39.8902	2.2506e-01	1.9011e+00
31	TAF050136	141.3833	144.3898	142.8415	6.1984e-01	1.9036e+00
32	TAF070136	164.2462	167.9828	165.9790	9.2761e-01	1.9062e+00
33	TAF080136	247.0672	251.7983	249.2446	1.2092e+00	1.9215e+00
34	TAF090136	101.1945	102.3353	101.7690	2.6116e-01	1.9007e+00
35	TAF100136	196.6932	198.7279	197.6679	4.8672e-01	1.9109e+00
36	TAF105136	201.3929	203.8776	202.1680	4.8632e-01	1.9117e+00
37	TAF110136	207.7489	209.4690	208.5273	3.8695e-01	1.9129e+00
38	TAF115136	213.9785	216.0771	214.8544	4.7718e-01	1.9141e+00
39	TAF120136	258.5068	261.7431	260.2779	8.4824e-01	1.9242e+00
40	TAF125136	226.3223	228.3936	227.1585	5.2224e-01	1.9166e+00
41	TAF130136	231.9666	234.0397	232.8924	4.7940e-01	1.9178e+00
42	TAF120048	219.7967	222.0968	220.7650	4.8287e-01	1.9153e+00
43	TAF130048	231.3857	233.1798	232.3134	4.0884e-01	1.9177e+00
44	TAF120224	217.4660	219.2762	218.4858	4.0654e-01	1.9148e+00
45	TAF130224	226.3672	228.5594	227.4253	4.3503e-01	1.9166e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1445	2.1164e-01	1.9010e+00
47	EMPTY	39.6057	40.0646	39.9224	1.3022e-01	1.9011e+00
48	TAI130048	269.7259	272.0352	271.0579	4.5325e-01	1.9270e+00
49	TAI130136	277.1148	278.1254	277.5687	2.5191e-01	1.9288e+00
50	TAI130224	276.7482	278.0393	277.4401	2.9825e-01	1.9288e+00
51	TAI130312	272.8556	274.7014	273.9135	4.1248e-01	1.9278e+00
52	TRR130000	140.2422	143.3547	141.9837	7.1310e-01	1.9035e+00
53	TSI000001	65.5722	66.2135	65.9590	1.7655e-01	1.9000e+00
54	TSI000002	73.2231	76.2943	74.5987	6.5401e-01	1.9000e+00
55	TSO000001	64.8045	65.6645	65.2542	2.0570e-01	1.9000e+00
56	TSO000002	83.1774	84.2316	83.6943	2.1538e-01	1.9001e+00
57	TAF020136	105.2533	108.5846	106.6805	7.6375e-01	1.9009e+00
58	TAF120312	214.3993	216.5021	215.6855	4.6387e-01	1.9142e+00
59	TAF130312	233.2618	236.0886	234.6704	5.6289e-01	1.9182e+00
60	EMPTY	3.8281	3.8574	3.8418	6.3931e-03	0.0000e+00
61	EMPTY	3.8135	3.8330	3.8246	4.7351e-03	0.0000e+00
62	EMPTY	3.7988	3.8184	3.8080	3.6433e-03	0.0000e+00
63	EMPTY	3.7939	3.8037	3.8010	2.8179e-03	0.0000e+00
64	EMPTY	1.8408	1.8457	1.8434	2.4642e-03	0.0000e+00
65	EMPTY	1.8555	1.8604	1.8592	2.1065e-03	0.0000e+00
66	EMPTY	1.8652	1.8701	1.8679	2.4583e-03	0.0000e+00
67	EMPTY	1.8799	1.8848	1.8800	6.9053e-04	0.0000e+00
68	EMPTY	1.8848	1.8945	1.8872	2.6562e-03	0.0000e+00
69	EMPTY	1.8945	1.8994	1.8988	1.6028e-03	0.0000e+00
70	EMPTY	1.9043	1.9092	1.9062	2.3941e-03	0.0000e+00
71	EMPTY	1.9189	1.9238	1.9221	2.3675e-03	0.0000e+00
72	EMPTY	1.9287	1.9287	1.9287	0.0000e+00	0.0000e+00
73	EMPTY	1.9385	1.9482	1.9432	1.3811e-03	0.0000e+00
74	EMPTY	1.9482	1.9531	1.9520	2.1065e-03	0.0000e+00
75	EMPTY	1.9580	1.9629	1.9628	6.9053e-04	0.0000e+00
76	EMPTY	1.9678	1.9775	1.9704	2.6488e-03	0.0000e+00
77	EMPTY	1.9824	1.9873	1.9827	1.1714e-03	0.0000e+00
78	EMPTY	1.9971	2.0020	1.9978	1.7115e-03	0.0000e+00
79	EMPTY	2.0117	2.0166	2.0161	1.4797e-03	0.0000e+00
80	PAN020136	-19.9023	4.8169	-7.0514	6.6697e+00	8.7018e-01
81	PAN050136	-36.7953	-10.5502	-24.4266	6.4625e+00	1.6811e+00
82	PAN070136	-25.8662	-0.1552	-14.8036	6.3948e+00	8.7079e-01
83	PAN080136	-14.0791	-0.4988	-9.1337	4.2325e+00	8.7030e-01
84	PAN090136	-13.2045	-3.8966	-10.2443	2.9187e+00	8.7038e-01
85	PAN100136	-12.1600	10.3467	-1.0088	4.7003e+00	8.7000e-01
86	PAN105136	-7.7005	16.7898	-1.5574	3.8392e+00	8.7001e-01
87	PAN110136	-4.6912	20.7146	-0.4920	4.6079e+00	8.7000e-01
88	PAN115136	-5.6948	0.0272	-3.0138	1.4416e+00	8.7003e-01
89	PAN120136	-6.0250	1.2230	-2.5872	1.7905e+00	8.7002e-01
90	PAN125136	-5.2723	1.6704	-1.9291	1.5701e+00	8.7001e-01
91	PAN130136	-5.7829	0.8547	-3.3857	1.5390e+00	8.7004e-01
92	PAN120048	-9.8154	2.4679	-5.2774	2.1352e+00	8.7010e-01
93	PAN130048	-8.1340	-0.9623	-4.8548	1.2371e+00	8.7008e-01
94	PAN120224	-7.5910	-2.5556	-5.2106	1.2745e+00	8.7010e-01
95	PAN130224	-9.3238	-3.6018	-6.2919	1.2152e+00	8.7014e-01
96	PAN120312	-9.9504	13.7007	-3.2976	5.2301e+00	8.7004e-01
97	PAN130312	-8.6270	0.4520	-5.2456	2.0129e+00	8.7010e-01
98	PAB000136	39.6567	40.4806	40.1153	2.3496e-01	5.8861e-01
99	PAB100136	42.2483	43.2096	42.4671	1.5675e-01	5.8964e-01
100	PAB125136	42.6885	42.9174	42.8057	6.1457e-02	5.8979e-01

Test: Aug01_14

sum2

Date: Wed Aug 1 17:49:28 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.7931	40.5021	39.8649	4.4068e-01	7.5659e-01
102	PRV000001	19.7289	19.9730	19.8632	4.4460e-02	7.5164e-01
103	PSR000001	42.5583	42.8025	42.6243	7.0664e-02	7.5753e-01
104	PFM000001	7.4738	7.8400	7.6478	8.5264e-02	5.0037e-01
105	PAN000136	-94.7828	-66.8592	-80.1251	8.0584e+00	4.9241e+00
106	PFM000002	7.5519	7.7868	7.6791	4.0834e-02	2.0092e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-7.8223	-9.5130	6.6401e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0044	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	144.2646	145.8271	145.1045	3.3540e-01	1.1892e+00
113	VPW000002	169.4674	170.0533	169.6783	1.6667e-01	1.3010e+00
114	VPW000003	208.8417	209.4276	209.1034	1.4012e-01	1.4934e+00
115	VPW000004	148.5389	149.5155	149.0975	2.3348e-01	1.2068e+00
116	VPW000005	198.3361	199.1174	198.6915	2.2213e-01	1.4413e+00
117	VPW000006	210.0698	210.8511	210.4176	2.0988e-01	1.5000e+00
118	IPW000001	779.0226	790.7367	785.0358	2.8672e+00	1.0202e+01
119	IPW000002	1796.5938	1808.3014	1803.8136	2.2732e+00	1.6391e+01
120	IPW000003	1843.5374	1851.3374	1847.8665	1.8178e+00	1.6695e+01
121	IPW000004	533.3909	540.2268	537.4825	1.7281e+00	4.6936e+00
122	IPW000005	353.8840	356.3252	355.2218	5.8197e-01	3.4460e+00
123	IPW000006	367.3096	369.2627	367.8468	4.5474e-01	3.5277e+00
124	EMPTY	-0.0244	-0.0098	-0.0185	3.7291e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	3.8066e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0132	3.5908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.5623e-03	0.0000e+00
128	IHT000001	181.0434	183.5825	182.4575	6.9426e-01	4.4877e+00
129	IHT000002	186.2906	188.8296	187.7242	6.4187e-01	4.5093e+00
130	IHT000003	188.1949	190.7339	189.5308	6.7929e-01	4.5169e+00
131	IHT000004	184.5628	187.1019	185.9691	6.8459e-01	4.5020e+00
132	IHT000005	182.8012	184.9497	183.8481	6.2360e-01	4.4933e+00
133	IHT000006	176.8930	179.4321	178.0961	6.2060e-01	4.4701e+00
134	IHT000007	185.2915	187.8306	186.6469	6.2066e-01	4.5049e+00
135	IHT000008	183.2407	185.7797	184.5883	6.1921e-01	4.4964e+00
136	IHT000009	183.7628	186.3018	185.0206	5.7880e-01	4.4981e+00
137	IHT000010	187.1620	189.5057	188.1269	5.6277e-01	4.5110e+00
138	IHT000011	184.2661	187.0005	185.4731	5.8619e-01	4.5000e+00
139	IHT000012	181.0847	183.6238	182.2489	5.2193e-01	4.4868e+00
140	IHT000013	130.2171	132.3655	131.1781	5.2026e-01	4.3047e+00
141	IHT000014	181.0547	182.8125	181.8750	4.8648e-01	4.4853e+00
142	IHT000015	134.3262	136.8652	135.6074	4.9624e-01	4.3184e+00
143	IHT000016	124.8648	127.2085	126.1226	5.2816e-01	4.2896e+00
144	IHT000017	149.6470	152.9673	151.0884	7.7111e-01	4.3695e+00
145	IHT000018	151.7803	154.3194	153.0186	6.1840e-01	4.3762e+00
146	IHT000019	146.9163	149.8460	148.0570	5.2846e-01	4.3591e+00
147	IHT000020	150.5296	152.8733	151.5414	4.9864e-01	4.3711e+00
148	IHT000021	-2.6104	0.1240	-1.4307	6.4472e-01	4.1000e+00
149	IHT000022	129.4959	133.0116	131.0624	6.6672e-01	4.3044e+00
150	IHT000023	148.2121	150.9465	149.1808	5.5798e-01	4.3630e+00
151	IHT000024	112.9996	115.7339	113.8706	5.4706e-01	4.2552e+00
152	IHT000025	147.6638	150.3981	148.6168	5.4909e-01	4.3610e+00
153	IHT000026	148.8544	151.9794	150.0381	5.4734e-01	4.3659e+00
154	IHT000027	126.7240	130.0443	128.0795	6.4042e-01	4.2954e+00
155	IHT000028	128.8537	131.7834	130.1818	5.7993e-01	4.3017e+00

Test: Aug01_14

sum2

Date: Wed Aug 1 17:49:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	151.0892	149.6284	5.5277e-01	4.3645e+00
157	IHT000030	151.1569	153.6959	152.3208	5.5798e-01	4.3738e+00
158	IHT000031	149.2676	152.0020	150.1855	5.9090e-01	4.3664e+00
159	IHT000032	151.0742	154.1992	152.0078	6.4873e-01	4.3727e+00
160	IHT000033	150.8789	153.8086	151.9492	6.2917e-01	4.3725e+00
161	IHT000034	132.5796	135.3140	133.5874	5.3286e-01	4.3121e+00
162	IHT000035	175.0676	177.6067	176.1339	5.2082e-01	4.4623e+00
163	IHT000036	130.8669	133.4059	131.9997	5.0532e-01	4.3072e+00

Test: Aug01_14 dif Date: Wed Aug 1 17:49:28 1990 Page: 1

Velocity 1 = 0.008400 (ft/sec)

Velocity 2 = 0.015500 (ft/sec)

Pressure Drop = 0.051600 (psi)

Tsat in = 0.050293 (deg F) Tsat out = 0.158112 (deg F)

Phi inner = 0.536102 (kBtu/hr-ft2) Phi outer = 0.344208 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0720	0.0847
1	TRF000002	0.0926	0.1085
2	TFM000001	0.1491	0.1698
3	TIN000001	0.1705	0.1958
4	TRV000001	0.1740	0.1964
5	TSR000001	1.7650	1.2127
6	TAO020136	3.5722	3.7548
7	TAO050136	0.0637	0.0311
8	TAO070136	0.2060	0.0986
9	TAO080136	0.2733	0.1111
10	TAO090136	0.1434	0.0559
11	TAO100136	0.0500	0.0198
12	TAO105136	0.0390	0.0151
13	TAO110136	0.0779	0.0289
14	TAO115136	0.1204	0.0456
15	TAO120136	0.1411	0.0501
16	TAO125136	0.7379	0.3293
17	TAO130136	0.0115	0.0042
18	TAO120048	0.0837	0.0703
19	TAO130048	0.0024	0.0009
20	TAO120224	0.0204	0.0073
21	TAO130224	0.1164	0.0438
22	TAO120312	0.1309	0.0479
23	TAO130312	0.0972	0.0357
24	TRT020000	0.0058	0.0029
25	TRT070000	0.0623	0.0260
26	TRT100000	0.1232	0.0460
27	TRT120000	0.2220	0.0795
28	TRT125000	0.2049	0.0713
29	TRT130000	0.1298	0.0466
30	EMPTY	0.0183	0.0459
31	TAF050136	0.0426	0.0298
32	TAF070136	0.2502	0.1510
33	TAF080136	0.1681	0.0674
34	TAF090136	0.0148	0.0145
35	TAF100136	0.1764	0.0893
36	TAF105136	0.1939	0.0960
37	TAF110136	0.1478	0.0709
38	TAF115136	0.0519	0.0242
39	TAF120136	0.1613	0.0620
40	TAF125136	0.0404	0.0178
41	TAF130136	0.0927	0.0398
42	TAF120048	0.0437	0.0198
43	TAF130048	0.0890	0.0383
44	TAF120224	0.1545	0.0708
45	TAF130224	0.0399	0.0175

#	Name	Abs Diff	%Diff
46	EMPTY	0.0183	0.0480
47	EMPTY	0.0413	0.1033
48	TAI130048	0.3013	0.1113
49	TAI130136	0.1197	0.0431
50	TAI130224	0.0645	0.0232
51	TAI130312	0.0425	0.0155
52	TRR130000	0.7960	0.5575
53	TSI000001	0.2021	0.3055
54	TSI000002	0.3278	0.4375
55	TSO000001	0.1658	0.2534
56	TSO000002	0.2126	0.2534
57	TAF020136	0.1475	0.1385
58	TAF120312	0.1282	0.0595
59	TAF130312	0.0581	0.0248
60	EMPTY	0.0032	0.0832
61	EMPTY	0.0049	0.1280
62	EMPTY	0.0065	0.1704
63	EMPTY	0.0072	0.1891
64	EMPTY	0.0035	0.1895
65	EMPTY	0.0028	0.1504
66	EMPTY	0.0032	0.1710
67	EMPTY	0.0034	0.1805
68	EMPTY	0.0038	0.2010
69	EMPTY	0.0033	0.1735
70	EMPTY	0.0036	0.1885
71	EMPTY	0.0047	0.2439
72	EMPTY	0.0042	0.2173
73	EMPTY	0.0038	0.1952
74	EMPTY	0.0033	0.1688
75	EMPTY	0.0046	0.2338
76	EMPTY	0.0041	0.2076
77	EMPTY	0.0047	0.2365
78	EMPTY	0.0051	0.2546
79	EMPTY	0.0047	0.2326
80	PAN020136	1.3488	16.0568
81	PAN050136	1.5716	6.0450
82	PAN070136	1.7487	13.3950
83	PAN080136	1.1368	14.2155
84	PAN090136	1.1093	12.1434
85	PAN100136	0.0946	10.3478
86	PAN105136	0.5188	24.9880
87	PAN110136	0.9354	65.5317
88	PAN115136	0.4578	13.1870
89	PAN120136	0.6713	20.6015
90	PAN125136	0.3753	24.1537
91	PAN130136	0.2899	9.3643
92	PAN120048	1.3398	20.2472
93	PAN130048	0.4760	10.8706
94	PAN120224	1.0010	16.1150
95	PAN130224	0.2701	4.1161
96	PAN120312	2.3651	41.7663
97	PAN130312	0.3906	8.0453
98	PAB000136	0.0339	0.0844
99	PAB100136	0.0431	0.1014
100	PAB125136	0.1126	0.2624

Test: Aug01_14

dif

Date: Wed Aug 1 17:49:28 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0219	0.0549
102	PRV000001	0.1148	0.5813
103	PSR000001	0.0952	0.2229
104	PFM000001	0.0183	0.2399
105	PAN000136	1.4283	1.7514
106	PFM000002	0.0336	0.4395
107	EMPTY	0.0008	19.5122
108	EMPTY	0.2947	3.0048
109	EMPTY	0.0009	25.7143
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0937	0.0645
113	VPW000002	0.1446	0.0853
114	VPW000003	0.0351	0.0168
115	VPW000004	0.0156	0.0105
116	VPW000005	0.0390	0.0196
117	VPW000006	0.0039	0.0019
118	IPW000001	2.7333	0.3494
119	IPW000002	10.5374	0.5808
120	IPW000003	5.8892	0.3177
121	IPW000004	1.4942	0.2788
122	IPW000005	0.0293	0.0082
123	IPW000006	0.3809	0.1034
124	EMPTY	0.0010	5.1282
125	EMPTY	0.0008	5.8824
126	EMPTY	0.0018	12.0000
127	EMPTY	0.0002	1.2658
128	IHT000001	0.1172	0.0643
129	IHT000002	0.1250	0.0666
130	IHT000003	0.1054	0.0556
131	IHT000004	0.0352	0.0189
132	IHT000005	0.0469	0.0255
133	IHT000006	0.0118	0.0066
134	IHT000007	0.0391	0.0209
135	IHT000008	0.0000	0.0000
136	IHT000009	0.0117	0.0063
137	IHT000010	0.0117	0.0062
138	IHT000011	0.0156	0.0084
139	IHT000012	0.0273	0.0150
140	IHT000013	0.0664	0.0506
141	IHT000014	0.0703	0.0386
142	IHT000015	0.0742	0.0547
143	IHT000016	0.2070	0.1639
144	IHT000017	0.3321	0.2203
145	IHT000018	0.1172	0.0767
146	IHT000019	0.0430	0.0291
147	IHT000020	0.0625	0.0413
148	IHT000021	0.0508	3.6814
149	IHT000022	0.1719	0.1310
150	IHT000023	0.0547	0.0367
151	IHT000024	0.0625	0.0549
152	IHT000025	0.0586	0.0395
153	IHT000026	0.0000	0.0000
154	IHT000027	0.1290	0.1006
155	IHT000028	0.0429	0.0329

Test: Aug01_14 dif Date: Wed Aug 1 17:49:28 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1563	0.1046
157	IHT000030	0.1640	0.1078
158	IHT000031	0.1328	0.0885
159	IHT000032	0.2109	0.1389
160	IHT000033	0.1992	0.1313
161	IHT000034	0.1094	0.0820
162	IHT000035	0.1601	0.0910
163	IHT000036	0.1133	0.0859

Test: Aug01_15

sum1

Date: Wed Aug 1 18:06:41 1990

Page: 1

Velocity 1 = 6.7903 (ft/sec) (+/- 3.9588 %)
Velocity 2 = 6.7947 (ft/sec) (+/- 2.1117 %)
Pressure drop = -3.0737 (psi)
Tsat in = 267.6613 (deg F) Tsat out = 271.8053 (deg F)
Phi inner = 201.8723 (kBtu/hr-ft2) (+/- 1.2811 %)
Phi outer = 200.9209 (kBtu/hr-ft2) (+/- 1.3393 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.7403	85.7979	85.3750	1.9109e-01	1.9002e+00
1	TRF000002	85.3732	86.0041	85.7012	1.2137e-01	1.9002e+00
2	TFM000001	87.9190	88.5507	88.2607	1.3339e-01	1.9002e+00
3	TIN000001	87.3727	87.9003	87.5928	1.4081e-01	1.9002e+00
4	TRV000001	88.6127	89.4502	88.9812	2.0733e-01	1.9002e+00
5	TSR000001	144.2207	147.5198	145.6345	9.5068e-01	1.9038e+00
6	TAO020136	104.2214	107.5392	106.2838	8.6227e-01	1.9009e+00
7	TAO050136	208.4980	211.1714	209.5462	6.8274e-01	1.9131e+00
8	TAO070136	212.1029	216.7141	214.1214	1.3016e+00	1.9139e+00
9	TAO080136	250.7903	252.6483	252.0234	3.2099e-01	1.9222e+00
10	TAO090136	261.1812	263.3127	262.3231	5.7206e-01	1.9248e+00
11	TAO100136	259.1311	261.5434	260.4894	5.9089e-01	1.9243e+00
12	TAO105136	264.3778	266.8835	265.4659	4.6726e-01	1.9256e+00
13	TAO110136	275.7304	277.0126	276.4017	2.7666e-01	1.9285e+00
14	TAO115136	270.1574	271.8224	271.0090	3.9179e-01	1.9270e+00
15	TAO120136	286.0857	287.1859	286.4679	2.4085e-01	1.9313e+00
16	TAO125136	235.3354	237.1246	235.8328	3.4577e-01	1.9184e+00
17	TAO130136	279.3588	280.8149	279.9796	3.5733e-01	1.9295e+00
18	TAO120048	119.0910	120.2170	119.7500	2.7904e-01	1.9017e+00
19	TAO130048	282.5247	283.5289	282.9675	2.2659e-01	1.9303e+00
20	TAO120224	285.4537	286.9176	286.0724	3.3264e-01	1.9312e+00
21	TAO130224	272.0951	273.9226	272.8805	4.1543e-01	1.9275e+00
22	TAO120312	279.2142	280.6862	279.9501	3.3565e-01	1.9295e+00
23	TAO130312	278.5879	279.4146	279.0031	2.1943e-01	1.9292e+00
24	TRT020000	206.6686	208.4035	207.4788	3.6623e-01	1.9127e+00
25	TRT070000	244.0453	246.0282	245.1065	4.7814e-01	1.9205e+00
26	TRT100000	273.4604	274.7500	274.0031	2.6126e-01	1.9278e+00
27	TRT120000	283.6249	285.4558	284.6721	2.9142e-01	1.9308e+00
28	TRT125000	289.9567	291.1396	290.4700	2.6100e-01	1.9325e+00
29	TRT130000	284.5291	285.2614	284.9610	1.7654e-01	1.9309e+00
30	EMPTY	39.3761	40.2940	39.8306	2.2471e-01	1.9011e+00
31	TAF050136	144.4908	147.7870	145.9429	7.5252e-01	1.9039e+00
32	TAF070136	168.1781	172.6893	169.8082	1.1588e+00	1.9067e+00
33	TAF080136	252.9117	257.7213	255.3544	8.9056e-01	1.9230e+00
34	TAF090136	99.7401	100.8846	100.3733	2.7522e-01	1.9006e+00
35	TAF100136	202.3053	204.1395	203.2976	4.7203e-01	1.9119e+00
36	TAF105136	206.2642	208.8394	207.7028	4.5920e-01	1.9127e+00
37	TAF110136	213.4781	215.8587	214.5183	5.1102e-01	1.9140e+00
38	TAF115136	220.2622	221.7830	220.9163	3.4580e-01	1.9153e+00
39	TAF120136	261.5598	264.6068	262.8974	7.6311e-01	1.9249e+00
40	TAF125136	232.9926	235.6155	234.0802	5.6426e-01	1.9181e+00
41	TAF130136	238.7418	241.3722	240.0318	5.6957e-01	1.9194e+00
42	TAF120048	225.9208	228.3057	227.1579	5.6370e-01	1.9166e+00
43	TAF130048	238.3609	240.4276	239.4663	3.9087e-01	1.9192e+00
44	TAF120224	223.3642	225.7358	224.6586	5.2050e-01	1.9160e+00
45	TAF130224	233.0286	235.0224	233.9897	4.6482e-01	1.9180e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1308	2.2320e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	39.9821	1.1126e-01	1.9011e+00
48	TAI130048	274.7091	276.2765	275.6308	3.8105e-01	1.9283e+00
49	TAI130136	280.7810	281.9731	281.4378	2.5203e-01	1.9299e+00
50	TAI130224	281.6312	283.1028	282.4258	3.7886e-01	1.9302e+00
51	TAI130312	277.9275	279.1248	278.6974	2.7325e-01	1.9291e+00
52	TRR130000	140.6463	141.8509	141.2968	3.0053e-01	1.9034e+00
53	TSI000001	65.7866	66.5346	66.1542	1.7149e-01	1.9000e+00
54	TSI000002	74.3897	76.6133	75.2583	5.1184e-01	1.9000e+00
55	TSO000001	65.0189	65.8788	65.4105	2.0454e-01	1.9000e+00
56	TSO000002	84.1262	84.8644	84.4932	2.0340e-01	1.9001e+00
57	TAF020136	106.3990	109.7273	107.9765	6.8924e-01	1.9010e+00
58	TAF120312	220.6976	223.1747	221.8111	5.5459e-01	1.9155e+00
59	TAF130312	241.4458	243.8831	242.8597	5.4086e-01	1.9200e+00
60	EMPTY	4.0332	4.0576	4.0478	6.6534e-03	0.0000e+00
61	EMPTY	4.0186	4.0332	4.0286	4.2327e-03	0.0000e+00
62	EMPTY	3.9990	4.0137	4.0107	3.6911e-03	0.0000e+00
63	EMPTY	3.9990	4.0088	4.0024	3.0003e-03	0.0000e+00
64	EMPTY	1.9287	1.9385	1.9342	2.1249e-03	0.0000e+00
65	EMPTY	1.9482	1.9531	1.9487	1.4797e-03	0.0000e+00
66	EMPTY	1.9531	1.9629	1.9578	1.3811e-03	0.0000e+00
67	EMPTY	1.9678	1.9727	1.9685	1.7115e-03	0.0000e+00
68	EMPTY	1.9678	1.9775	1.9756	2.6100e-03	0.0000e+00
69	EMPTY	1.9824	1.9922	1.9869	1.6624e-03	0.0000e+00
70	EMPTY	1.9922	2.0020	1.9934	2.3261e-03	0.0000e+00
71	EMPTY	2.0068	2.0117	2.0089	2.4344e-03	0.0000e+00
72	EMPTY	2.0117	2.0166	2.0161	1.4797e-03	0.0000e+00
73	EMPTY	2.0264	2.0313	2.0278	2.2603e-03	0.0000e+00
74	EMPTY	2.0313	2.0410	2.0366	2.0337e-03	0.0000e+00
75	EMPTY	2.0410	2.0508	2.0477	2.5648e-03	0.0000e+00
76	EMPTY	2.0557	2.0605	2.0558	6.9053e-04	0.0000e+00
77	EMPTY	2.0654	2.0703	2.0678	2.4642e-03	0.0000e+00
78	EMPTY	2.0801	2.0850	2.0838	2.1065e-03	0.0000e+00
79	EMPTY	2.0996	2.1045	2.0998	9.6655e-04	0.0000e+00
80	PAN020136	-19.9023	0.7733	-10.7989	5.5022e+00	8.7042e-01
81	PAN050136	-38.6264	-13.9072	-25.3024	5.8616e+00	1.6812e+00
82	PAN070136	-25.2559	-1.8336	-14.6266	6.1375e+00	8.7077e-01
83	PAN080136	-14.0028	-1.0328	-8.2426	3.8069e+00	8.7024e-01
84	PAN090136	-13.2045	-5.2699	-10.8882	2.7098e+00	8.7043e-01
85	PAN100136	-6.4379	16.3740	2.8059	5.6562e+00	8.7003e-01
86	PAN105136	-5.3354	1.9888	-2.0105	1.5448e+00	8.7001e-01
87	PAN110136	-7.2852	-0.3425	-3.2905	1.5851e+00	8.7004e-01
88	PAN115136	-7.6022	1.0954	-2.9803	2.1930e+00	8.7003e-01
89	PAN120136	-6.0250	1.2993	-2.7214	1.8160e+00	8.7003e-01
90	PAN125136	-3.5176	0.9838	-1.2181	1.0043e+00	8.7001e-01
91	PAN130136	-3.4178	-1.5867	-2.8303	3.5292e-01	8.7003e-01
92	PAN120048	-8.5947	-4.0934	-5.9336	1.1299e+00	8.7013e-01
93	PAN130048	-6.3029	-3.0986	-4.9784	6.3772e-01	8.7009e-01
94	PAN120224	-7.2858	-2.0979	-5.1191	1.3262e+00	8.7009e-01
95	PAN130224	-7.7216	-3.9832	-6.2583	6.6667e-01	8.7014e-01
96	PAN120312	-9.4926	-2.9313	-5.9022	1.2362e+00	8.7013e-01
97	PAN130312	-10.9921	-1.8368	-6.0818	1.4850e+00	8.7013e-01
98	PAB000136	39.7940	40.6637	40.1968	2.4556e-01	5.8864e-01
99	PAB100136	42.4772	42.8434	42.6420	7.1636e-02	5.8972e-01
100	PAB125136	43.0089	43.1920	43.0757	4.3585e-02	5.8991e-01

Test: Aug01_15

sum1

Date: Wed Aug 1 18:06:41 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.1593	40.6241	39.9576	4.4543e-01	7.5662e-01
102	PRV000001	19.6068	19.7289	19.6556	6.0409e-02	7.5161e-01
103	PSR000001	42.8025	43.0466	42.9441	5.1496e-02	7.5765e-01
104	PFM000001	6.7414	7.1992	6.9666	9.4694e-02	5.0030e-01
105	PAN000136	-97.0716	-70.5213	-85.0965	7.1716e+00	4.9246e+00
106	PFM000002	6.8807	7.0485	6.9757	3.8145e-02	2.0076e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.6624e-03	0.0000e+00
108	EMPTY	-10.0000	-6.7480	-9.6557	8.3526e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0034	2.2603e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8505	145.4365	145.2178	1.1599e-01	1.1897e+00
113	VPW000002	169.4674	169.8580	169.6392	7.5283e-02	1.3008e+00
114	VPW000003	209.0370	209.6229	209.1738	1.3235e-01	1.4937e+00
115	VPW000004	148.7342	149.3201	149.1171	1.1133e-01	1.2069e+00
116	VPW000005	198.5314	199.1174	198.7618	1.2283e-01	1.4416e+00
117	VPW000006	210.2652	210.6558	210.4567	1.0052e-01	1.5002e+00
118	IPW000001	769.2609	775.1180	772.0333	1.5322e+00	1.0139e+01
119	IPW000002	1818.0577	1825.8628	1821.6479	1.7788e+00	1.6514e+01
120	IPW000003	1864.9874	1870.8374	1868.5364	1.5100e+00	1.6838e+01
121	IPW000004	534.8557	536.3206	535.6661	4.1397e-01	4.6806e+00
122	IPW000005	354.8605	356.3252	355.6514	3.6762e-01	3.4488e+00
123	IPW000006	369.7510	370.7276	370.2980	3.3656e-01	3.5437e+00
124	EMPTY	-0.0244	-0.0098	-0.0176	3.4173e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0122	2.4662e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0126	3.4300e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
128	IHT000001	181.0434	184.3637	182.4653	6.9926e-01	4.4877e+00
129	IHT000002	186.2906	189.0249	187.6929	6.6344e-01	4.5092e+00
130	IHT000003	188.1949	191.5152	189.4996	6.8281e-01	4.5167e+00
131	IHT000004	184.7581	187.6878	185.9261	6.0036e-01	4.5019e+00
132	IHT000005	182.6059	185.5356	183.8403	6.1058e-01	4.4933e+00
133	IHT000006	176.6977	179.8227	178.1118	6.5976e-01	4.4702e+00
134	IHT000007	185.2915	188.4165	186.7055	6.2585e-01	4.5051e+00
135	IHT000008	183.2407	186.1704	184.6625	5.8399e-01	4.4967e+00
136	IHT000009	183.5675	186.3018	185.1377	5.8655e-01	4.4986e+00
137	IHT000010	186.7713	189.5057	188.1152	5.9535e-01	4.5110e+00
138	IHT000011	184.0708	186.8051	185.4418	5.7655e-01	4.4999e+00
139	IHT000012	180.8894	183.8191	182.1942	6.1058e-01	4.4866e+00
140	IHT000013	130.0218	132.5608	131.2718	5.6082e-01	4.3050e+00
141	IHT000014	180.8594	183.5938	182.0859	6.2892e-01	4.4861e+00
142	IHT000015	134.3262	137.0605	135.7519	5.9875e-01	4.3189e+00
143	IHT000016	125.2554	127.9898	126.3569	6.0972e-01	4.2903e+00
144	IHT000017	150.2329	153.1626	151.4907	6.5335e-01	4.3709e+00
145	IHT000018	151.5850	154.3194	153.0733	6.2252e-01	4.3764e+00
146	IHT000019	146.9163	149.2601	147.9359	5.5844e-01	4.3587e+00
147	IHT000020	150.1390	152.8733	151.4398	5.3322e-01	4.3707e+00
148	IHT000021	-2.8057	0.1240	-1.4073	6.2932e-01	4.1000e+00
149	IHT000022	129.8866	132.4256	131.0741	5.2325e-01	4.3044e+00
150	IHT000023	148.0168	150.1653	149.0988	4.8361e-01	4.3627e+00
151	IHT000024	112.8043	114.9527	113.8003	4.7062e-01	4.2550e+00
152	IHT000025	147.4685	149.6169	148.5660	4.5829e-01	4.3609e+00
153	IHT000026	149.0497	150.8075	149.9951	4.1640e-01	4.3658e+00
154	IHT000027	127.1146	129.0678	128.1147	4.8269e-01	4.2955e+00
155	IHT000028	128.8537	131.7834	130.3107	6.9162e-01	4.3021e+00

Test: Aug01_15

sum1

Date: Wed Aug 1 18:06:41 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	151.0892	149.6948	6.7429e-01	4.3647e+00
157	IHT000030	151.1569	154.0865	152.4458	6.3258e-01	4.3742e+00
158	IHT000031	148.8770	151.6113	150.2520	6.1506e-01	4.3666e+00
159	IHT000032	150.8789	153.2227	152.0625	6.1055e-01	4.3729e+00
160	IHT000033	150.6836	153.2226	152.0039	6.2335e-01	4.3727e+00
161	IHT000034	132.7749	134.7281	133.7046	4.8897e-01	4.3125e+00
162	IHT000035	175.0676	177.2160	176.2120	5.4105e-01	4.4626e+00
163	IHT000036	131.0622	133.4059	132.0856	5.3461e-01	4.3075e+00

Test: Aug01_15

sum2

Date: Wed Aug 1 18:06:41 1990

Page: 1

Velocity 1 = 6.7797 (ft/sec) (+/- 3.9691 %)
Velocity 2 = 6.7810 (ft/sec) (+/- 2.1149 %)
Pressure drop = -2.9732 (psi)
Tsat in = 267.9121 (deg F) Tsat out = 271.9612 (deg F)
Phi inner = 200.1258 (kBtu/hr-ft2) (+/- 1.2824 %)
Phi outer = 201.3137 (kBtu/hr-ft2) (+/- 1.3386 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	84.9519	85.7979	85.4892	2.2286e-01	1.9002e+00
1	TRF000002	85.5835	86.4245	85.8274	1.6099e-01	1.9002e+00
2	TFM000001	87.7113	88.5507	88.1039	1.8713e-01	1.9002e+00
3	TIN000001	87.0575	87.6902	87.4182	1.5503e-01	1.9002e+00
4	TRV000001	88.4037	89.3468	88.9005	2.2571e-01	1.9002e+00
5	TSR000001	146.6212	150.6112	149.3403	9.9515e-01	1.9042e+00
6	TAO020136	94.8417	102.7669	98.1270	1.6511e+00	1.9005e+00
7	TAO050136	208.2151	211.1692	209.3240	6.6065e-01	1.9130e+00
8	TAO070136	212.1025	216.9056	214.1076	1.3304e+00	1.9139e+00
9	TAO080136	250.9772	252.4627	251.9631	3.2306e-01	1.9222e+00
10	TAO090136	261.8304	263.5910	262.8514	4.1241e-01	1.9249e+00
11	TAO100136	259.7808	261.5434	260.4509	3.6841e-01	1.9243e+00
12	TAO105136	264.8419	266.6051	265.5161	3.6628e-01	1.9256e+00
13	TAO110136	275.7330	277.3794	276.4887	3.2811e-01	1.9285e+00
14	TAO115136	270.2512	271.7305	270.8928	3.4711e-01	1.9270e+00
15	TAO120136	285.7209	286.9115	286.4041	2.7823e-01	1.9313e+00
16	TAO125136	235.8058	242.4765	236.9905	8.8774e-01	1.9187e+00
17	TAO130136	279.4548	281.2687	280.1243	3.9389e-01	1.9295e+00
18	TAO120048	117.9042	119.0923	118.5653	3.2809e-01	1.9016e+00
19	TAO130048	282.7015	283.5315	283.0614	2.1954e-01	1.9303e+00
20	TAO120224	285.7272	286.7342	286.1697	2.6065e-01	1.9312e+00
21	TAO130224	272.1856	274.2886	273.1759	3.7368e-01	1.9276e+00
22	TAO120312	279.3982	280.6862	279.9889	2.8619e-01	1.9295e+00
23	TAO130312	278.4040	279.5070	279.0312	2.6802e-01	1.9292e+00
24	TRT020000	206.7657	208.5000	207.6310	3.9005e-01	1.9127e+00
25	TRT070000	244.0440	246.4993	245.0551	5.1002e-01	1.9205e+00
26	TRT100000	273.8296	274.8427	274.3878	2.0836e-01	1.9279e+00
27	TRT120000	284.1737	285.3637	284.8683	2.7870e-01	1.9309e+00
28	TRT125000	210.3401	431.7521	274.5727	3.5925e+01	1.9280e+00
29	TRT130000	284.6212	285.5362	285.1497	2.1888e-01	1.9309e+00
30	EMPTY	39.3761	40.2940	39.8489	2.3371e-01	1.9011e+00
31	TAF050136	144.6909	147.2921	145.6778	6.1844e-01	1.9039e+00
32	TAF070136	168.3787	172.5936	169.8112	8.9889e-01	1.9067e+00
33	TAF080136	252.7265	257.0756	255.1169	1.0522e+00	1.9229e+00
34	TAF090136	99.6387	100.6762	100.1557	2.3512e-01	1.9006e+00
35	TAF100136	201.9192	204.4288	203.1104	4.9280e-01	1.9119e+00
36	TAF105136	206.5514	208.7450	207.6183	4.4898e-01	1.9127e+00
37	TAF110136	213.4776	215.4799	214.5439	4.5593e-01	1.9140e+00
38	TAF115136	219.6922	221.4985	220.6794	3.6430e-01	1.9152e+00
39	TAF120136	261.5603	264.1462	262.8115	6.7057e-01	1.9249e+00
40	TAF125136	233.0871	235.8953	234.2817	5.2012e-01	1.9181e+00
41	TAF130136	238.9316	241.4662	240.1131	5.2929e-01	1.9194e+00
42	TAF120048	226.3980	228.2111	227.0449	4.8914e-01	1.9165e+00
43	TAF130048	238.6424	240.2413	239.4272	4.3823e-01	1.9192e+00
44	TAF120224	223.6491	225.8315	224.7254	5.8098e-01	1.9161e+00
45	TAF130224	233.4085	235.2101	234.0672	3.3820e-01	1.9180e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0246e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0050	1.1174e-01	1.9011e+00
48	TAI130048	274.6175	276.6447	275.6404	4.1261e-01	1.9283e+00
49	TAI130136	280.8734	282.0653	281.5171	2.3535e-01	1.9299e+00
50	TAI130224	281.8152	283.4699	282.5307	3.9159e-01	1.9302e+00
51	TAI130312	278.2952	279.5847	278.8871	2.7407e-01	1.9292e+00
52	TRR130000	140.3447	142.2533	141.3917	4.9802e-01	1.9034e+00
53	TSI000001	65.7860	66.7487	66.2635	2.2867e-01	1.9000e+00
54	TSI000002	76.8221	79.8854	78.3808	5.7238e-01	1.9000e+00
55	TSO000001	64.8039	65.8782	65.3951	2.3295e-01	1.9000e+00
56	TSO000002	83.9155	85.1806	84.5841	2.3385e-01	1.9001e+00
57	TAF020136	106.6060	109.3112	107.8574	6.1844e-01	1.9010e+00
58	TAF120312	220.5085	222.6990	221.6876	5.7388e-01	1.9154e+00
59	TAF130312	241.7266	244.6331	242.8171	6.1364e-01	1.9200e+00
60	EMPTY	4.0332	4.0527	4.0438	5.0964e-03	0.0000e+00
61	EMPTY	4.0186	4.0332	4.0255	2.9742e-03	0.0000e+00
62	EMPTY	4.0039	4.0137	4.0075	3.3901e-03	0.0000e+00
63	EMPTY	3.9941	4.0039	4.0000	2.2058e-03	0.0000e+00
64	EMPTY	1.9287	1.9385	1.9326	2.2058e-03	0.0000e+00
65	EMPTY	1.9434	1.9482	1.9478	1.4797e-03	0.0000e+00
66	EMPTY	1.9531	1.9580	1.9550	2.3941e-03	0.0000e+00
67	EMPTY	1.9629	1.9727	1.9679	1.2041e-03	0.0000e+00
68	EMPTY	1.9727	1.9775	1.9730	1.3381e-03	0.0000e+00
69	EMPTY	1.9824	1.9873	1.9845	2.4344e-03	0.0000e+00
70	EMPTY	1.9873	1.9922	1.9921	6.9053e-04	0.0000e+00
71	EMPTY	2.0020	2.0117	2.0068	9.8648e-04	0.0000e+00
72	EMPTY	2.0117	2.0166	2.0146	2.4344e-03	0.0000e+00
73	EMPTY	2.0264	2.0313	2.0265	6.9053e-04	0.0000e+00
74	EMPTY	2.0264	2.0361	2.0359	1.3811e-03	0.0000e+00
75	EMPTY	2.0459	2.0508	2.0462	1.1714e-03	0.0000e+00
76	EMPTY	2.0508	2.0557	2.0554	1.1714e-03	0.0000e+00
77	EMPTY	2.0654	2.0703	2.0663	1.8950e-03	0.0000e+00
78	EMPTY	2.0752	2.0850	2.0819	2.5894e-03	0.0000e+00
79	EMPTY	2.0947	2.0996	2.0993	1.1714e-03	0.0000e+00
80	PAN020136	-19.4445	4.4355	-6.2930	6.3836e+00	8.7014e-01
81	PAN050136	-38.9316	-14.6701	-28.2108	6.6783e+00	1.6815e+00
82	PAN070136	-24.1877	-2.8254	-12.7864	5.1185e+00	8.7059e-01
83	PAN080136	-14.0791	-1.3380	-8.5996	3.9630e+00	8.7027e-01
84	PAN090136	-13.2045	-2.4471	-9.6278	2.7892e+00	8.7033e-01
85	PAN100136	-6.8194	15.0770	0.0715	4.4116e+00	8.7000e-01
86	PAN105136	-6.4035	0.5392	-2.1860	1.5613e+00	8.7002e-01
87	PAN110136	-6.6749	1.4123	-3.4415	2.0070e+00	8.7004e-01
88	PAN115136	-7.2207	0.7139	-3.5357	1.8393e+00	8.7004e-01
89	PAN120136	-6.0250	1.5281	-2.1691	1.7608e+00	8.7002e-01
90	PAN125136	-3.5939	2.2045	-1.3524	1.2413e+00	8.7001e-01
91	PAN130136	-3.2652	-1.2052	-2.4229	4.3677e-01	8.7002e-01
92	PAN120048	-9.0525	-2.6438	-5.9870	1.3997e+00	8.7013e-01
93	PAN130048	-6.0740	-3.0223	-5.0212	8.1533e-01	8.7009e-01
94	PAN120224	-8.7354	-1.7927	-4.9329	1.1923e+00	8.7009e-01
95	PAN130224	-7.0350	-3.9832	-5.8250	5.9856e-01	8.7012e-01
96	PAN120312	-11.1711	-2.7788	-6.3844	1.7920e+00	8.7015e-01
97	PAN130312	-9.3136	-0.9213	-4.9740	1.5947e+00	8.7009e-01
98	PAB000136	39.8855	40.8468	40.3662	2.5264e-01	5.8871e-01
99	PAB100136	42.6145	42.8892	42.7546	7.3061e-02	5.8977e-01
100	PAB125136	43.0547	43.3293	43.1874	5.4124e-02	5.8996e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4034	40.8683	40.1969	4.1138e-01	7.5670e-01
102	PRV000001	19.6068	19.7289	19.7142	4.0071e-02	7.5162e-01
103	PSR000001	42.9246	43.1687	43.0735	5.6722e-02	7.5769e-01
104	PFM000001	6.8330	7.1076	6.9446	7.2326e-02	5.0030e-01
105	PAN000136	-97.0716	-69.6058	-82.3133	8.0855e+00	4.9243e+00
106	PFM000002	6.8639	7.0485	6.9475	3.7212e-02	2.0075e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-7.9834	-9.7707	5.5323e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0032	2.7213e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	145.0458	145.6318	145.3037	1.4466e-01	1.1900e+00
113	VPW000002	169.4674	169.8580	169.6509	9.9902e-02	1.3009e+00
114	VPW000003	208.8417	209.2323	209.1386	1.1327e-01	1.4936e+00
115	VPW000004	148.7342	149.3201	149.0819	1.4385e-01	1.2067e+00
116	VPW000005	198.5314	199.3127	198.8360	1.4314e-01	1.4420e+00
117	VPW000006	210.2652	210.6558	210.4957	1.2283e-01	1.5004e+00
118	IPW000001	777.0703	786.8320	781.2482	2.0499e+00	1.0183e+01
119	IPW000002	1812.2039	1820.0089	1815.9889	1.8662e+00	1.6475e+01
120	IPW000003	1847.4374	1853.2874	1850.2842	1.4851e+00	1.6711e+01
121	IPW000004	537.7854	539.7385	538.9669	5.3206e-01	4.7042e+00
122	IPW000005	355.3487	356.8134	356.4131	4.0296e-01	3.4537e+00
123	IPW000006	368.7744	370.2393	369.4093	4.2142e-01	3.5379e+00
124	EMPTY	-0.0293	-0.0098	-0.0185	3.9815e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0125	3.1444e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0132	3.0003e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	2.6762e-03	0.0000e+00
128	IHT000001	181.0434	184.1684	182.2856	6.6235e-01	4.4870e+00
129	IHT000002	186.2906	189.2202	187.5172	6.1007e-01	4.5085e+00
130	IHT000003	187.9995	191.1245	189.2965	6.1733e-01	4.5159e+00
131	IHT000004	184.7581	187.6878	185.8949	6.3465e-01	4.5017e+00
132	IHT000005	182.8012	185.3403	183.7700	5.7176e-01	4.4930e+00
133	IHT000006	176.6977	179.4321	178.0376	5.6083e-01	4.4699e+00
134	IHT000007	185.2915	188.0259	186.6899	5.6684e-01	4.5050e+00
135	IHT000008	183.4360	186.1704	184.5649	5.3567e-01	4.4963e+00
136	IHT000009	183.7628	186.4971	185.0206	5.7745e-01	4.4981e+00
137	IHT000010	186.7713	189.7010	188.0409	6.1542e-01	4.5106e+00
138	IHT000011	184.0708	186.8051	185.3911	5.8202e-01	4.4997e+00
139	IHT000012	180.8894	183.2332	182.1864	5.8095e-01	4.4866e+00
140	IHT000013	129.4358	132.3655	131.2054	6.0927e-01	4.3048e+00
141	IHT000014	180.4688	183.2031	182.1523	5.8513e-01	4.4864e+00
142	IHT000015	134.1308	136.8652	135.7871	5.6530e-01	4.3190e+00
143	IHT000016	125.2554	127.9898	126.4976	5.1864e-01	4.2907e+00
144	IHT000017	150.4282	152.9673	151.7329	6.1058e-01	4.3718e+00
145	IHT000018	152.1710	154.9053	153.2178	5.9420e-01	4.3769e+00
146	IHT000019	146.5257	149.2601	148.0804	6.0741e-01	4.3592e+00
147	IHT000020	150.1390	152.8733	151.5883	5.6647e-01	4.3713e+00
148	IHT000021	-3.1964	-0.0714	-1.3292	7.0714e-01	4.1000e+00
149	IHT000022	129.8866	132.4256	131.2694	5.4653e-01	4.3050e+00
150	IHT000023	147.6262	149.9700	149.1730	5.2916e-01	4.3629e+00
151	IHT000024	112.6089	114.7574	113.8823	5.0260e-01	4.2552e+00
152	IHT000025	147.4685	149.8122	148.6364	5.4746e-01	4.3611e+00
153	IHT000026	149.0497	151.5888	150.1162	5.1631e-01	4.3662e+00
154	IHT000027	127.1146	130.2396	128.3139	5.9714e-01	4.2961e+00
155	IHT000028	128.8537	132.1740	130.3693	6.7608e-01	4.3023e+00

Test: Aug01_15

sum2

Date: Wed Aug 1 18:06:41 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	151.0892	149.6049	6.3626e-01	4.3644e+00
157	IHT000030	151.1569	153.8912	152.3248	6.1699e-01	4.3738e+00
158	IHT000031	148.8770	151.6113	150.1777	6.2217e-01	4.3664e+00
159	IHT000032	150.6836	153.4180	151.9883	6.3189e-01	4.3726e+00
160	IHT000033	150.6836	153.4180	151.9258	6.2858e-01	4.3724e+00
161	IHT000034	132.3843	134.5327	133.5718	5.2473e-01	4.3121e+00
162	IHT000035	175.2629	177.2160	176.1769	4.9354e-01	4.4625e+00
163	IHT000036	131.0622	133.0153	132.0075	5.0434e-01	4.3073e+00

Test: Aug01_15 dif Date: Wed Aug 1 18:06:41 1990 Page: 1

Velocity 1 = 0.010600 (ft/sec)

Velocity 2 = 0.013700 (ft/sec)

Pressure Drop = 0.100500 (psi)

Tsat in = 0.250824 (deg F) Tsat out = 0.155914 (deg F)

Phi inner = 1.746506 (kBtu/hr-ft2) Phi outer = 0.392807 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1142	0.1338
1	TRF000002	0.1262	0.1473
2	TFM000001	0.1568	0.1777
3	TIN000001	0.1746	0.1993
4	TRV000001	0.0807	0.0907
5	TSR000001	3.7058	2.5446
6	TAO020136	8.1568	7.6745
7	TAO050136	0.2222	0.1060
8	TAO070136	0.0138	0.0064
9	TAO080136	0.0603	0.0239
10	TAO090136	0.5283	0.2014
11	TAO100136	0.0385	0.0148
12	TAO105136	0.0502	0.0189
13	TAO110136	0.0870	0.0315
14	TAO115136	0.1162	0.0429
15	TAO120136	0.0638	0.0223
16	TAO125136	1.1577	0.4909
17	TAO130136	0.1447	0.0517
18	TAO120048	1.1847	0.9893
19	TAO130048	0.0939	0.0332
20	TAO120224	0.0973	0.0340
21	TAO130224	0.2954	0.1083
22	TAO120312	0.0388	0.0139
23	TAO130312	0.0281	0.0101
24	TRT020000	0.1522	0.0734
25	TRT070000	0.0514	0.0210
26	TRT100000	0.3847	0.1404
27	TRT120000	0.1962	0.0689
28	TRT125000	15.8973	5.4730
29	TRT130000	0.1887	0.0662
30	EMPTY	0.0183	0.0459
31	TAF050136	0.2651	0.1817
32	TAF070136	0.0030	0.0018
33	TAF080136	0.2375	0.0930
34	TAF090136	0.2176	0.2168
35	TAF100136	0.1872	0.0921
36	TAF105136	0.0845	0.0407
37	TAF110136	0.0256	0.0119
38	TAF115136	0.2369	0.1072
39	TAF120136	0.0859	0.0327
40	TAF125136	0.2015	0.0861
41	TAF130136	0.0813	0.0339
42	TAF120048	0.1130	0.0497
43	TAF130048	0.0391	0.0163
44	TAF120224	0.0668	0.0297
45	TAF130224	0.0775	0.0331

#	Name	Abs Diff	%Diff
46	EMPTY	0.0046	0.0121
47	EMPTY	0.0229	0.0573
48	TAI130048	0.0096	0.0035
49	TAI130136	0.0793	0.0282
50	TAI130224	0.1049	0.0371
51	TAI130312	0.1897	0.0681
52	TRR130000	0.0949	0.0672
53	TSI000001	0.1093	0.1652
54	TSI000002	3.1225	4.1490
55	TSO000001	0.0154	0.0235
56	TSO000002	0.0909	0.1076
57	TAF020136	0.1191	0.1103
58	TAF120312	0.1235	0.0557
59	TAF130312	0.0426	0.0175
60	EMPTY	0.0040	0.0988
61	EMPTY	0.0031	0.0770
62	EMPTY	0.0032	0.0798
63	EMPTY	0.0024	0.0600
64	EMPTY	0.0016	0.0827
65	EMPTY	0.0009	0.0462
66	EMPTY	0.0028	0.1430
67	EMPTY	0.0006	0.0305
68	EMPTY	0.0026	0.1316
69	EMPTY	0.0024	0.1208
70	EMPTY	0.0013	0.0652
71	EMPTY	0.0021	0.1045
72	EMPTY	0.0015	0.0744
73	EMPTY	0.0013	0.0641
74	EMPTY	0.0007	0.0344
75	EMPTY	0.0015	0.0732
76	EMPTY	0.0004	0.0195
77	EMPTY	0.0015	0.0725
78	EMPTY	0.0019	0.0912
79	EMPTY	0.0005	0.0238
80	PAN020136	4.5059	41.7255
81	PAN050136	2.9084	11.4946
82	PAN070136	1.8402	12.5812
83	PAN080136	0.3570	4.3312
84	PAN090136	1.2604	11.5758
85	PAN100136	2.7344	97.4518
86	PAN105136	0.1755	8.7292
87	PAN110136	0.1510	4.5890
88	PAN115136	0.5554	18.6357
89	PAN120136	0.5523	20.2947
90	PAN125136	0.1343	11.0254
91	PAN130136	0.4074	14.3942
92	PAN120048	0.0534	0.9000
93	PAN130048	0.0428	0.8597
94	PAN120224	0.1862	3.6374
95	PAN130224	0.4333	6.9236
96	PAN120312	0.4822	8.1698
97	PAN130312	1.1078	18.2150
98	PAB000136	0.1694	0.4214
99	PAB100136	0.1126	0.2641
100	PAB125136	0.1117	0.2593

Test: Aug01_15

dif

Date: Wed Aug 1 18:06:41 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.2393	0.5989
102	PRV000001	0.0586	0.2981
103	PSR000001	0.1294	0.3013
104	PFM000001	0.0220	0.3158
105	PAN000136	2.7832	3.2706
106	PFM000002	0.0282	0.4043
107	EMPTY	0.0003	6.6667
108	EMPTY	0.1150	1.1910
109	EMPTY	0.0002	5.8824
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0859	0.0591
113	VPW000002	0.0117	0.0069
114	VPW000003	0.0352	0.0168
115	VPW000004	0.0352	0.0236
116	VPW000005	0.0742	0.0373
117	VPW000006	0.0390	0.0185
118	IPW000001	9.2149	1.1936
119	IPW000002	5.6591	0.3107
120	IPW000003	18.2522	0.9768
121	IPW000004	3.3008	0.6162
122	IPW000005	0.7617	0.2142
123	IPW000006	0.8887	0.2400
124	EMPTY	0.0009	5.1136
125	EMPTY	0.0003	2.4590
126	EMPTY	0.0006	4.7619
127	EMPTY	0.0006	3.7500
128	IHT000001	0.1797	0.0985
129	IHT000002	0.1757	0.0936
130	IHT000003	0.2031	0.1072
131	IHT000004	0.0312	0.0168
132	IHT000005	0.0703	0.0382
133	IHT000006	0.0742	0.0417
134	IHT000007	0.0156	0.0084
135	IHT000008	0.0976	0.0529
136	IHT000009	0.1171	0.0632
137	IHT000010	0.0743	0.0395
138	IHT000011	0.0507	0.0273
139	IHT000012	0.0078	0.0043
140	IHT000013	0.0664	0.0506
141	IHT000014	0.0664	0.0365
142	IHT000015	0.0352	0.0259
143	IHT000016	0.1407	0.1113
144	IHT000017	0.2422	0.1599
145	IHT000018	0.1445	0.0944
146	IHT000019	0.1445	0.0977
147	IHT000020	0.1485	0.0981
148	IHT000021	0.0781	5.5496
149	IHT000022	0.1953	0.1490
150	IHT000023	0.0742	0.0498
151	IHT000024	0.0820	0.0721
152	IHT000025	0.0704	0.0474
153	IHT000026	0.1211	0.0807
154	IHT000027	0.1992	0.1555
155	IHT000028	0.0586	0.0450

Test: Aug01_15 dif Date: Wed Aug 1 18:06:41 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0899	0.0600
157	IHT000030	0.1210	0.0794
158	IHT000031	0.0743	0.0494
159	IHT000032	0.0742	0.0488
160	IHT000033	0.0781	0.0514
161	IHT000034	0.1328	0.0993
162	IHT000035	0.0351	0.0199
163	IHT000036	0.0781	0.0591

Test: Aug01_16

sum1

Date: Wed Aug 1 18:23:11 1990

Page: 1

Velocity 1 = 6.5412 (ft/sec) (+/- 4.2159 %)
Velocity 2 = 6.5470 (ft/sec) (+/- 2.1746 %)
Pressure drop = -2.9937 (psi)
Tsat in = 267.9027 (deg F) Tsat out = 272.0901 (deg F)
Phi inner = 200.8847 (kBtu/hr-ft2) (+/- 1.2819 %)
Phi outer = 200.7400 (kBtu/hr-ft2) (+/- 1.3394 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.3750	86.0093	85.7175	2.2150e-01	1.9002e+00
1	TRF000002	85.7938	86.2143	86.0293	1.5102e-01	1.9002e+00
2	TFM000001	86.4528	87.5041	87.0688	1.9570e-01	1.9002e+00
3	TIN000001	85.9002	86.7434	86.3452	1.6527e-01	1.9002e+00
4	TRV000001	87.0457	88.3037	87.7484	2.7073e-01	1.9002e+00
5	TSR000001	144.2262	148.1216	146.1261	1.0978e+00	1.9039e+00
6	TAO020136	99.9565	103.7025	102.0035	8.2593e-01	1.9007e+00
7	TAO050136	210.9826	214.0292	211.9743	6.0974e-01	1.9135e+00
8	TAO070136	215.2741	219.8762	217.3636	9.7712e-01	1.9146e+00
9	TAO080136	254.9668	257.1902	256.1542	4.2206e-01	1.9232e+00
10	TAO090136	265.0718	267.1971	266.2076	5.3059e-01	1.9258e+00
11	TAO100136	264.2302	266.5428	265.3417	4.9649e-01	1.9255e+00
12	TAO105136	269.2927	270.7733	270.0457	3.8271e-01	1.9268e+00
13	TAO110136	279.6554	280.7502	280.2261	2.5223e-01	1.9295e+00
14	TAO115136	274.5905	275.9745	275.2826	2.9878e-01	1.9282e+00
15	TAO120136	289.2887	290.2953	289.9566	2.1337e-01	1.9323e+00
16	TAO125136	240.8827	244.0710	242.1157	6.5216e-01	1.9199e+00
17	TAO130136	287.1398	292.3670	288.6514	1.1777e+00	1.9319e+00
18	TAO120048	111.5983	112.7320	112.0747	3.1553e-01	1.9012e+00
19	TAO130048	294.2732	297.7209	296.0644	8.1650e-01	1.9341e+00
20	TAO120224	287.5589	289.0212	288.1200	3.1295e-01	1.9318e+00
21	TAO130224	272.5529	274.1092	273.2294	3.3650e-01	1.9276e+00
22	TAO120312	281.1457	282.5247	281.7874	3.0261e-01	1.9300e+00
23	TAO130312	276.7543	277.9498	277.2311	2.8553e-01	1.9287e+00
24	TRT020000	209.5584	211.0968	210.3488	3.3551e-01	1.9132e+00
25	TRT070000	248.1015	250.7371	249.2222	5.3838e-01	1.9215e+00
26	TRT100000	278.6034	279.8888	279.2224	2.6997e-01	1.9293e+00
27	TRT120000	277.8491	280.0522	278.9893	5.9327e-01	1.9292e+00
28	TRT125000	280.9506	282.4130	281.6762	3.4286e-01	1.9299e+00
29	TRT130000	274.6341	275.9222	275.1623	2.5474e-01	1.9281e+00
30	EMPTY	39.3761	40.2940	39.8902	2.3894e-01	1.9011e+00
31	TAF050136	145.8930	148.6905	146.7982	6.4905e-01	1.9040e+00
32	TAF070136	170.6334	174.6482	171.8627	9.0280e-01	1.9070e+00
33	TAF080136	257.4450	260.5815	258.8505	7.3983e-01	1.9239e+00
34	TAF090136	94.9552	96.1036	95.6171	3.0156e-01	1.9004e+00
35	TAF100136	205.4884	207.8965	206.7509	5.5210e-01	1.9126e+00
36	TAF105136	210.3614	212.4510	211.2431	4.9330e-01	1.9134e+00
37	TAF110136	217.0954	220.0407	218.0300	5.1915e-01	1.9147e+00
38	TAF115136	223.6799	225.8603	224.4861	4.2609e-01	1.9160e+00
39	TAF120136	263.5009	265.7154	264.5659	5.0847e-01	1.9253e+00
40	TAF125136	241.2181	247.3627	243.6106	1.2862e+00	1.9202e+00
41	TAF130136	250.8160	267.3271	258.2352	4.0408e+00	1.9237e+00
42	TAF120048	231.3543	233.6370	232.4939	5.9255e-01	1.9177e+00
43	TAF130048	263.9265	271.8712	268.3331	1.9282e+00	1.9263e+00
44	TAF120224	226.2097	228.7670	227.5729	4.8324e-01	1.9167e+00
45	TAF130224	237.2021	239.9459	238.3056	6.2441e-01	1.9190e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1400	1.9646e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0233	1.7151e-01	1.9011e+00
48	TAI130048	280.8730	282.3431	281.5477	3.4451e-01	1.9299e+00
49	TAI130136	285.8115	288.4573	286.5369	5.4860e-01	1.9313e+00
50	TAI130224	278.2238	279.9746	279.0404	4.2089e-01	1.9292e+00
51	TAI130312	275.8089	277.0997	276.5040	2.9935e-01	1.9285e+00
52	TRR130000	139.1394	140.7499	140.0353	4.0882e-01	1.9033e+00
53	TSI000001	65.6813	66.7498	66.2306	2.2549e-01	1.9000e+00
54	TSI000002	75.5564	77.9885	76.7933	6.3842e-01	1.9000e+00
55	TSO000001	64.9114	65.8776	65.3687	2.5475e-01	1.9000e+00
56	TSO000002	84.8639	85.7073	85.3593	2.1205e-01	1.9002e+00
57	TAF020136	105.6679	108.6865	107.3403	6.2507e-01	1.9009e+00
58	TAF120312	223.7442	225.9306	224.7427	5.1130e-01	1.9161e+00
59	TAF130312	244.9147	248.0939	246.2037	7.3883e-01	1.9208e+00
60	EMPTY	4.1113	4.1406	4.1258	6.6145e-03	0.0000e+00
61	EMPTY	4.1016	4.1113	4.1061	3.3944e-03	0.0000e+00
62	EMPTY	4.0820	4.0918	4.0874	3.1583e-03	0.0000e+00
63	EMPTY	4.0771	4.0820	4.0793	2.4484e-03	0.0000e+00
64	EMPTY	1.9678	1.9727	1.9681	1.1714e-03	0.0000e+00
65	EMPTY	1.9824	1.9873	1.9827	1.1714e-03	0.0000e+00
66	EMPTY	1.9873	1.9922	1.9919	1.1714e-03	0.0000e+00
67	EMPTY	2.0020	2.0068	2.0030	2.0432e-03	0.0000e+00
68	EMPTY	2.0068	2.0117	2.0092	2.4642e-03	0.0000e+00
69	EMPTY	2.0166	2.0264	2.0196	2.5894e-03	0.0000e+00
70	EMPTY	2.0264	2.0313	2.0271	1.7115e-03	0.0000e+00
71	EMPTY	2.0410	2.0459	2.0424	2.2146e-03	0.0000e+00
72	EMPTY	2.0459	2.0508	2.0491	2.3365e-03	0.0000e+00
73	EMPTY	2.0605	2.0703	2.0613	2.0598e-03	0.0000e+00
74	EMPTY	2.0703	2.0703	2.0703	0.0000e+00	0.0000e+00
75	EMPTY	2.0801	2.0850	2.0806	1.4797e-03	0.0000e+00
76	EMPTY	2.0850	2.0898	2.0883	2.3008e-03	0.0000e+00
77	EMPTY	2.0996	2.1045	2.0999	1.1714e-03	0.0000e+00
78	EMPTY	2.1094	2.1191	2.1144	1.2041e-03	0.0000e+00
79	EMPTY	2.1289	2.1338	2.1318	2.4164e-03	0.0000e+00
80	PAN020136	-19.9023	2.5281	-11.7358	5.7700e+00	8.7049e-01
81	PAN050136	-37.1005	-16.5012	-26.2882	4.8527e+00	1.6813e+00
82	PAN070136	-25.2559	-1.6047	-15.3010	6.3484e+00	8.7084e-01
83	PAN080136	-14.0028	0.8745	-6.3551	4.2294e+00	8.7015e-01
84	PAN090136	-13.2045	-2.0656	-11.2209	3.1018e+00	8.7045e-01
85	PAN100136	-7.1246	22.2486	4.9192	7.8118e+00	8.7009e-01
86	PAN105136	-6.6324	0.9970	-2.9108	1.6289e+00	8.7003e-01
87	PAN110136	-6.9038	-0.5714	-3.7940	1.8080e+00	8.7005e-01
88	PAN115136	-4.8556	2.2398	-1.1294	1.6540e+00	8.7000e-01
89	PAN120136	-5.2620	-0.5318	-3.5652	1.1163e+00	8.7005e-01
90	PAN125136	-2.2206	-0.1606	-1.2364	4.5156e-01	8.7001e-01
91	PAN130136	0.4732	1.6176	0.9966	2.6113e-01	8.7000e-01
92	PAN120048	-7.9844	-3.7119	-5.8130	1.0234e+00	8.7012e-01
93	PAN130048	-0.7334	1.0976	0.2492	4.2399e-01	8.7000e-01
94	PAN120224	-5.9888	-1.8690	-4.3913	1.1644e+00	8.7007e-01
95	PAN130224	-1.0841	0.1366	-0.4646	3.1949e-01	8.7000e-01
96	PAN120312	-8.0430	-1.1003	-4.7456	1.6190e+00	8.7008e-01
97	PAN130312	-1.9894	3.8852	-0.2148	1.2655e+00	8.7000e-01
98	PAB000136	39.8855	40.8011	40.3598	2.6959e-01	5.8871e-01
99	PAB100136	42.7061	42.9808	42.8425	6.9509e-02	5.8981e-01
100	PAB125136	43.1920	43.3751	43.2799	4.6093e-02	5.9001e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.2813	40.7462	40.1066	4.0864e-01	7.5667e-01
102	PRV0000001	19.7289	19.8509	19.7386	3.3453e-02	7.5162e-01
103	PSR0000001	42.6804	42.8025	42.7463	6.1457e-02	7.5758e-01
104	PFM0000001	6.2836	6.6498	6.4594	8.2387e-02	5.0026e-01
105	PAN000136	-94.7828	-71.4368	-82.8809	7.5881e+00	4.9244e+00
106	PFM0000002	6.3605	6.5283	6.4709	3.3746e-02	2.0065e-01
107	EMPTY	-0.0049	0.0049	0.0042	2.2080e-03	0.0000e+00
108	EMPTY	-10.0000	-6.3086	-9.7537	7.9361e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0030	2.3941e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	145.0458	145.4365	145.2139	1.1844e-01	1.1896e+00
113	VPW0000002	169.4674	169.8580	169.6158	1.0106e-01	1.3007e+00
114	VPW0000003	209.0370	209.4276	209.2011	1.2072e-01	1.4939e+00
115	VPW0000004	148.9295	149.5155	149.2069	1.1223e-01	1.2073e+00
116	VPW0000005	198.7267	199.1174	198.8360	1.2577e-01	1.4420e+00
117	VPW0000006	210.2652	210.8511	210.5387	1.4227e-01	1.5006e+00
118	IPW0000001	769.2609	780.9750	775.4304	2.7429e+00	1.0156e+01
119	IPW0000002	1812.2039	1821.9602	1815.8333	2.8972e+00	1.6474e+01
120	IPW0000003	1853.2874	1863.0374	1858.7080	2.4057e+00	1.6770e+01
121	IPW0000004	535.3440	537.2971	536.1739	5.2432e-01	4.6842e+00
122	IPW0000005	352.9075	355.8369	355.0167	4.4595e-01	3.4447e+00
123	IPW0000006	367.7979	369.7510	368.7843	3.6232e-01	3.5338e+00
124	EMPTY	-0.0244	-0.0098	-0.0175	3.5691e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0124	2.6488e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0136	3.3146e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
128	IHT0000001	181.0434	183.5825	182.2856	6.1607e-01	4.4870e+00
129	IHT0000002	186.2906	189.0249	187.5797	5.9057e-01	4.5087e+00
130	IHT0000003	188.1949	190.7339	189.3004	6.1207e-01	4.5159e+00
131	IHT0000004	184.7581	187.2972	185.9457	6.5058e-01	4.5020e+00
132	IHT0000005	182.8012	185.3403	183.8676	6.3896e-01	4.4934e+00
133	IHT0000006	176.6977	179.2368	178.0922	6.3993e-01	4.4701e+00
134	IHT0000007	185.2915	188.2212	186.7680	6.5216e-01	4.5054e+00
135	IHT0000008	183.2407	186.3657	184.6743	6.0052e-01	4.4967e+00
136	IHT0000009	183.5675	187.0831	185.1807	6.9004e-01	4.4988e+00
137	IHT0000010	186.7713	189.7010	187.9902	6.8523e-01	4.5104e+00
138	IHT0000011	184.4614	187.0005	185.4809	6.2923e-01	4.5000e+00
139	IHT0000012	181.0847	184.0144	182.2919	6.6461e-01	4.4870e+00
140	IHT0000013	130.0218	132.7561	131.3773	6.4042e-01	4.3053e+00
141	IHT0000014	180.8594	183.5938	182.1797	6.3449e-01	4.4865e+00
142	IHT0000015	134.5215	137.4512	135.8848	6.2948e-01	4.3193e+00
143	IHT0000016	125.0601	127.9898	126.3726	5.8266e-01	4.2903e+00
144	IHT0000017	149.4516	152.9673	151.4673	7.5535e-01	4.3708e+00
145	IHT0000018	151.1944	154.5147	153.0303	7.0476e-01	4.3763e+00
146	IHT0000019	147.1116	149.0647	147.8929	5.5102e-01	4.3586e+00
147	IHT0000020	150.7249	152.4827	151.5219	4.7489e-01	4.3710e+00
148	IHT0000021	-2.6104	-0.0714	-1.3526	6.5216e-01	4.1000e+00
149	IHT0000022	130.0819	132.4256	131.1366	5.6359e-01	4.3046e+00
150	IHT0000023	148.2121	150.3606	149.1261	5.6969e-01	4.3628e+00
151	IHT0000024	112.8043	115.1480	113.8589	5.5243e-01	4.2552e+00
152	IHT0000025	147.6638	149.8122	148.6246	5.4653e-01	4.3611e+00
153	IHT0000026	149.0497	151.3935	150.1513	5.5350e-01	4.3663e+00
154	IHT0000027	126.9193	129.0678	128.2045	5.8273e-01	4.2958e+00
155	IHT0000028	128.8537	132.3693	130.2208	7.4451e-01	4.3018e+00

Test: Aug01_16

sum1

Date: Wed Aug 1 18:23:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	151.4799	149.4877	7.1572e-01	4.3640e+00
157	IHT000030	151.1569	153.8912	152.2623	6.8755e-01	4.3736e+00
158	IHT000031	148.8770	151.4160	150.1074	6.2172e-01	4.3661e+00
159	IHT000032	150.4883	153.4180	151.9453	6.6756e-01	4.3725e+00
160	IHT000033	150.4883	153.2226	151.8828	6.4839e-01	4.3723e+00
161	IHT000034	132.5796	134.7281	133.6929	5.5559e-01	4.3125e+00
162	IHT000035	175.0676	177.2160	176.2003	5.1900e-01	4.4626e+00
163	IHT000036	131.0622	133.4059	132.0582	5.5419e-01	4.3074e+00

Test: Aug01_16

sum2

Date: Wed Aug 1 18:23:11 1990

Page: 1

Velocity 1 = 6.5341 (ft/sec) (+/- 4.2240 %)
Velocity 2 = 6.5397 (ft/sec) (+/- 2.1767 %)
Pressure drop = -2.9497 (psi)
Tsat in = 267.8417 (deg F) Tsat out = 271.9715 (deg F)
Phi inner = 201.1239 (kBtu/hr-ft2) (+/- 1.2817 %)
Phi outer = 201.0957 (kBtu/hr-ft2) (+/- 1.3390 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5864	86.2206	85.8613	1.5547e-01	1.9002e+00
1	TRF000002	85.7938	86.4245	86.1345	1.3358e-01	1.9002e+00
2	TFM000001	87.0837	87.9235	87.4993	2.1521e-01	1.9002e+00
3	TIN000001	86.3222	87.0587	86.7811	1.5888e-01	1.9002e+00
4	TRV000001	87.7801	88.5127	88.2197	1.8421e-01	1.9002e+00
5	TSR000001	146.7235	152.0053	148.9254	1.8283e+00	1.9042e+00
6	TAO020136	95.3644	98.8103	96.9651	8.9106e-01	1.9005e+00
7	TAO050136	210.9826	214.2193	212.2551	6.0288e-01	1.9136e+00
8	TAO070136	215.6577	220.3544	217.5801	1.0475e+00	1.9146e+00
9	TAO080136	255.5225	257.2833	256.6420	3.4083e-01	1.9233e+00
10	TAO090136	265.9960	268.3968	267.2666	5.4674e-01	1.9260e+00
11	TAO100136	264.4153	267.0964	265.8027	4.7739e-01	1.9257e+00
12	TAO105136	269.5700	271.6054	270.6621	4.3798e-01	1.9269e+00
13	TAO110136	279.3858	280.3857	279.9235	2.4222e-01	1.9295e+00
14	TAO115136	274.0384	276.7114	275.5649	4.3639e-01	1.9283e+00
15	TAO120136	289.8375	290.9345	290.2437	2.4582e-01	1.9324e+00
16	TAO125136	240.1334	242.9481	241.4692	5.8715e-01	1.9197e+00
17	TAO130136	287.9563	292.3706	289.4408	9.8765e-01	1.9322e+00
18	TAO120048	107.5784	108.7145	108.1030	3.2374e-01	1.9010e+00
19	TAO130048	294.7278	297.2682	295.9329	7.3621e-01	1.9341e+00
20	TAO120224	287.6499	288.9304	288.1112	2.9894e-01	1.9318e+00
21	TAO130224	272.7383	274.2900	273.4701	3.6202e-01	1.9277e+00
22	TAO120312	281.0544	282.2492	281.7417	3.1741e-01	1.9300e+00
23	TAO130312	276.6653	277.7664	277.1271	2.3888e-01	1.9287e+00
24	TRT020000	209.9427	211.1932	210.5392	3.2269e-01	1.9133e+00
25	TRT070000	248.7601	250.5484	249.4761	4.5638e-01	1.9216e+00
26	TRT100000	279.0629	280.1627	279.5437	2.3846e-01	1.9294e+00
27	TRT120000	276.3789	278.4928	277.7980	3.9121e-01	1.9289e+00
28	TRT125000	280.3147	282.5936	281.1829	4.6840e-01	1.9298e+00
29	TRT130000	274.1749	275.6459	275.0398	2.9652e-01	1.9281e+00
30	EMPTY	39.3761	40.2940	39.8398	2.3408e-01	1.9011e+00
31	TAF050136	146.0947	148.9893	147.2525	6.9154e-01	1.9040e+00
32	TAF070136	170.8305	174.5511	172.3395	8.9594e-01	1.9070e+00
33	TAF080136	257.0761	260.3082	258.9421	7.6766e-01	1.9239e+00
34	TAF090136	92.5555	93.7056	93.1162	2.4962e-01	1.9004e+00
35	TAF100136	206.1636	208.2813	207.1188	5.1264e-01	1.9126e+00
36	TAF105136	210.6494	212.5494	211.5846	4.6145e-01	1.9135e+00
37	TAF110136	217.5728	219.5680	218.5076	4.2550e-01	1.9148e+00
38	TAF115136	224.0610	225.8603	225.0797	4.1598e-01	1.9161e+00
39	TAF120136	263.7801	267.3737	265.3282	7.7648e-01	1.9255e+00
40	TAF125136	242.9931	251.2568	245.8008	2.0092e+00	1.9207e+00
41	TAF130136	250.8165	267.2369	260.6386	3.7081e+00	1.9243e+00
42	TAF120048	232.4001	234.6807	233.2295	5.7536e-01	1.9179e+00
43	TAF130048	266.8882	271.5960	269.0231	1.2824e+00	1.9265e+00
44	TAF120224	226.9692	229.9023	228.0069	5.8521e-01	1.9167e+00
45	TAF130224	237.9588	240.6072	239.2195	5.8769e-01	1.9192e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	1.8673e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0234	1.3665e-01	1.9011e+00
48	TAI130048	280.2315	281.6089	280.9439	3.3844e-01	1.9297e+00
49	TAI130136	285.7220	288.3685	286.7438	4.8148e-01	1.9314e+00
50	TAI130224	277.8551	279.7905	279.0239	4.3993e-01	1.9292e+00
51	TAI130312	275.9010	276.9154	276.4175	2.4428e-01	1.9285e+00
52	TRR130000	141.6525	143.3582	142.5394	3.5246e-01	1.9035e+00
53	TSI000001	65.7887	66.5367	66.1823	1.6909e-01	1.9000e+00
54	TSI000002	75.0275	77.3538	76.2084	4.8304e-01	1.9000e+00
55	TSO000001	65.0183	65.8776	65.4093	2.3351e-01	1.9000e+00
56	TSO000002	84.9701	85.8124	85.4207	2.1799e-01	1.9002e+00
57	TAF020136	106.3962	109.3097	107.7789	7.4121e-01	1.9010e+00
58	TAF120312	223.6495	226.0255	225.0641	5.8238e-01	1.9161e+00
59	TAF130312	245.1962	248.1880	246.4980	6.6732e-01	1.9209e+00
60	EMPTY	4.1162	4.1455	4.1292	8.1711e-03	0.0000e+00
61	EMPTY	4.1016	4.1211	4.1091	5.5986e-03	0.0000e+00
62	EMPTY	4.0820	4.0967	4.0894	4.9570e-03	0.0000e+00
63	EMPTY	4.0723	4.0869	4.0802	3.8066e-03	0.0000e+00
64	EMPTY	1.9678	1.9727	1.9700	2.4583e-03	0.0000e+00
65	EMPTY	1.9824	1.9873	1.9849	2.4662e-03	0.0000e+00
66	EMPTY	1.9922	1.9971	1.9927	1.4797e-03	0.0000e+00
67	EMPTY	1.9971	2.0068	2.0046	2.6488e-03	0.0000e+00
68	EMPTY	2.0068	2.0117	2.0112	1.4797e-03	0.0000e+00
69	EMPTY	2.0166	2.0215	2.0214	6.9053e-04	0.0000e+00
70	EMPTY	2.0264	2.0313	2.0283	2.4164e-03	0.0000e+00
71	EMPTY	2.0410	2.0459	2.0450	1.8950e-03	0.0000e+00
72	EMPTY	2.0508	2.0508	2.0508	0.0000e+00	0.0000e+00
73	EMPTY	2.0605	2.0654	2.0638	2.3365e-03	0.0000e+00
74	EMPTY	2.0703	2.0752	2.0710	1.7115e-03	0.0000e+00
75	EMPTY	2.0801	2.0850	2.0833	2.3365e-03	0.0000e+00
76	EMPTY	2.0898	2.0947	2.0900	9.6655e-04	0.0000e+00
77	EMPTY	2.0996	2.1094	2.1021	2.6543e-03	0.0000e+00
78	EMPTY	2.1143	2.1240	2.1170	2.6396e-03	0.0000e+00
79	EMPTY	2.1240	2.1338	2.1336	1.3811e-03	0.0000e+00
80	PAN020136	-19.9023	5.7325	-11.3406	6.2821e+00	8.7046e-01
81	PAN050136	-37.7109	-12.8391	-27.0328	5.4214e+00	1.6814e+00
82	PAN070136	-25.9425	-1.1470	-14.2009	6.0839e+00	8.7072e-01
83	PAN080136	-14.0028	-2.6350	-7.8047	3.8028e+00	8.7022e-01
84	PAN090136	-13.2045	-5.9566	-11.2804	2.3982e+00	8.7046e-01
85	PAN100136	-6.7431	22.9352	4.5057	7.1491e+00	8.7007e-01
86	PAN105136	-7.7005	0.7681	-2.6865	1.6475e+00	8.7003e-01
87	PAN110136	-7.3615	0.6493	-4.8698	1.6933e+00	8.7009e-01
88	PAN115136	-3.8638	2.5449	-0.8364	1.4108e+00	8.7000e-01
89	PAN120136	-4.4991	-0.2266	-3.2357	7.7807e-01	8.7004e-01
90	PAN125136	-1.6102	0.0682	-0.7145	4.2263e-01	8.7000e-01
91	PAN130136	0.7784	1.9991	1.2911	2.2603e-01	8.7001e-01
92	PAN120048	-8.4421	-3.3304	-6.5531	1.2579e+00	8.7015e-01
93	PAN130048	0.4110	2.0131	1.1083	3.6247e-01	8.7000e-01
94	PAN120224	-6.2940	-2.0979	-4.7376	1.0131e+00	8.7008e-01
95	PAN130224	-0.6263	0.8996	0.0558	3.3573e-01	8.7000e-01
96	PAN120312	-7.4327	-1.4055	-4.2909	1.3621e+00	8.7007e-01
97	PAN130312	-2.4472	1.8253	-0.1721	9.2991e-01	8.7000e-01
98	PAB000136	39.7940	40.8926	40.3186	2.7640e-01	5.8869e-01
99	PAB100136	42.6603	42.9350	42.7793	6.7328e-02	5.8978e-01
100	PAB125136	43.1005	43.3293	43.1948	5.1831e-02	5.8997e-01

Test: Aug01_16

sum2

Date: Wed Aug 1 18:23:11 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0372	40.7462	39.9967	4.2215e-01	7.5664e-01
102	PRV000001	19.7289	19.8509	19.7582	5.2663e-02	7.5162e-01
103	PSR000001	42.5583	42.8025	42.6511	5.8152e-02	7.5754e-01
104	PFM000001	6.2836	6.6498	6.4448	8.3869e-02	5.0026e-01
105	PAN000136	-96.6138	-66.8592	-81.6632	8.7997e+00	4.9242e+00
106	PFM000002	6.3773	6.5787	6.4558	4.4646e-02	2.0065e-01
107	EMPTY	-0.0049	0.0049	0.0043	2.3428e-03	0.0000e+00
108	EMPTY	-10.0000	-8.9844	-9.9316	2.3120e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0034	2.2603e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0458	145.4365	145.2920	1.0297e-01	1.1900e+00
113	VPW000002	169.4674	169.8580	169.6626	6.8345e-02	1.3009e+00
114	VPW000003	209.0370	209.4276	209.2363	1.2156e-01	1.4940e+00
115	VPW000004	148.9295	149.7108	149.2108	1.4314e-01	1.2073e+00
116	VPW000005	198.5314	199.1174	198.7970	1.2327e-01	1.4418e+00
117	VPW000006	210.2652	210.6558	210.5231	1.0763e-01	1.5005e+00
118	IPW000001	771.2133	779.0226	775.9769	1.4309e+00	1.0158e+01
119	IPW000002	1818.0577	1823.9115	1821.8439	1.6449e+00	1.6515e+01
120	IPW000003	1857.1874	1864.9874	1860.9700	1.5959e+00	1.6785e+01
121	IPW000004	533.8792	535.3440	534.6016	3.1567e-01	4.6730e+00
122	IPW000005	353.8840	356.3252	355.0851	5.8530e-01	3.4451e+00
123	IPW000006	367.7979	369.7510	368.8917	4.2499e-01	3.5345e+00
124	EMPTY	-0.0293	-0.0098	-0.0184	3.8913e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0118	3.1335e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0144	3.6124e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.4173e-03	0.0000e+00
128	IHT000001	181.0434	183.5825	182.2348	7.1382e-01	4.4868e+00
129	IHT000002	186.2906	189.0249	187.5328	7.0117e-01	4.5085e+00
130	IHT000003	187.8042	191.1245	189.2027	7.8161e-01	4.5155e+00
131	IHT000004	184.1722	187.6878	185.8207	7.6936e-01	4.5014e+00
132	IHT000005	182.4106	185.3403	183.7543	6.6455e-01	4.4929e+00
133	IHT000006	176.8930	179.8227	178.0493	6.6713e-01	4.4699e+00
134	IHT000007	185.8774	188.0259	186.7797	5.7438e-01	4.5054e+00
135	IHT000008	183.8266	185.9751	184.7446	5.4426e-01	4.4970e+00
136	IHT000009	184.1534	186.4971	185.1963	5.7806e-01	4.4989e+00
137	IHT000010	186.1854	189.5057	187.8339	6.1404e-01	4.5098e+00
138	IHT000011	184.2661	186.4145	185.2973	5.7459e-01	4.4993e+00
139	IHT000012	180.6941	183.4285	182.1356	5.9958e-01	4.4864e+00
140	IHT000013	130.0218	132.1702	131.2210	5.6083e-01	4.3049e+00
141	IHT000014	180.6641	183.3984	182.0000	6.0019e-01	4.4858e+00
142	IHT000015	134.5215	137.2558	135.7988	6.0645e-01	4.3190e+00
143	IHT000016	125.2554	128.3804	126.4507	6.3826e-01	4.2906e+00
144	IHT000017	149.8423	152.9673	150.9751	7.6412e-01	4.3691e+00
145	IHT000018	151.7803	154.9053	153.0225	7.7801e-01	4.3763e+00
146	IHT000019	146.7210	149.2601	147.8383	5.5809e-01	4.3584e+00
147	IHT000020	150.5296	152.8733	151.5297	5.3327e-01	4.3711e+00
148	IHT000021	-2.6104	0.3193	-1.3760	6.6899e-01	4.1000e+00
149	IHT000022	130.2772	132.4256	131.1678	5.2816e-01	4.3047e+00
150	IHT000023	148.0168	149.9700	149.0714	5.0839e-01	4.3626e+00
151	IHT000024	112.8043	114.7574	113.8081	4.7517e-01	4.2550e+00
152	IHT000025	147.6638	149.8122	148.6012	5.0992e-01	4.3610e+00
153	IHT000026	149.0497	151.0028	150.1318	4.8522e-01	4.3662e+00
154	IHT000027	127.3100	129.4584	128.3022	5.1575e-01	4.2961e+00
155	IHT000028	129.0490	132.1740	130.2091	5.8715e-01	4.3018e+00

Test: Aug01_16

sum2

Date: Wed Aug 1 18:23:11 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	151.0892	149.3627	5.6546e-01	4.3636e+00
157	IHT000030	150.7662	154.0865	152.1568	6.1844e-01	4.3732e+00
158	IHT000031	148.6816	152.0020	150.0488	6.1257e-01	4.3659e+00
159	IHT000032	150.4883	153.6133	151.8672	5.9505e-01	4.3722e+00
160	IHT000033	150.2930	153.6133	151.7851	6.1480e-01	4.3719e+00
161	IHT000034	132.3843	135.1187	133.6694	4.9613e-01	4.3124e+00
162	IHT000035	174.8723	177.2160	176.1378	4.8687e-01	4.4623e+00
163	IHT000036	130.8669	133.0153	132.0583	4.4686e-01	4.3074e+00

Test: Aug01_16 dif Date: Wed Aug 1 18:23:11 1990 Page: 1

Velocity 1 = 0.007100 (ft/sec)

Velocity 2 = 0.007300 (ft/sec)

Pressure Drop = 0.044000 (psi)

Tsat in = 0.061005 (deg F) Tsat out = 0.118591 (deg F)

Phi inner = 0.239197 (kBtu/hr-ft2) Phi outer = 0.355698 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1438	0.1678
1	TRF000002	0.1052	0.1223
2	TFM000001	0.4305	0.4944
3	TIN000001	0.4359	0.5048
4	TRV000001	0.4713	0.5371
5	TSR000001	2.7993	1.9157
6	TAO020136	5.0384	4.9394
7	TAO050136	0.2808	0.1325
8	TAO070136	0.2165	0.0996
9	TAO080136	0.4878	0.1904
10	TAO090136	1.0590	0.3978
11	TAO100136	0.4610	0.1737
12	TAO105136	0.6164	0.2283
13	TAO110136	0.3026	0.1080
14	TAO115136	0.2823	0.1026
15	TAO120136	0.2871	0.0990
16	TAO125136	0.6465	0.2670
17	TAO130136	0.7894	0.2735
18	TAO120048	3.9717	3.5438
19	TAO130048	0.1315	0.0444
20	TAO120224	0.0088	0.0031
21	TAO130224	0.2407	0.0881
22	TAO120312	0.0457	0.0162
23	TAO130312	0.1040	0.0375
24	TRT020000	0.1904	0.0905
25	TRT070000	0.2539	0.1019
26	TRT100000	0.3213	0.1151
27	TRT120000	1.1913	0.4270
28	TRT125000	0.4933	0.1751
29	TRT130000	0.1225	0.0445
30	EMPTY	0.0504	0.1263
31	TAF050136	0.4543	0.3095
32	TAF070136	0.4768	0.2774
33	TAF080136	0.0916	0.0354
34	TAF090136	2.5009	2.6155
35	TAF100136	0.3679	0.1779
36	TAF105136	0.3415	0.1617
37	TAF110136	0.4776	0.2191
38	TAF115136	0.5936	0.2644
39	TAF120136	0.7623	0.2881
40	TAF125136	2.1902	0.8991
41	TAF130136	2.4034	0.9307
42	TAF120048	0.7356	0.3164
43	TAF130048	0.6900	0.2571
44	TAF120224	0.4340	0.1907
45	TAF130224	0.9139	0.3835

#	Name	Abs Diff	%Diff
46	EMPTY	0.0414	0.1085
47	EMPTY	0.0001	0.0002
48	TAI130048	0.6038	0.2145
49	TAI130136	0.2069	0.0722
50	TAI130224	0.0165	0.0059
51	TAI130312	0.0865	0.0313
52	TRR130000	2.5041	1.7882
53	TSI000001	0.0483	0.0729
54	TSI000002	0.5849	0.7617
55	TSO000001	0.0406	0.0621
56	TSO000002	0.0614	0.0719
57	TAF020136	0.4386	0.4086
58	TAF120312	0.3214	0.1430
59	TAF130312	0.2943	0.1195
60	EMPTY	0.0034	0.0824
61	EMPTY	0.0030	0.0731
62	EMPTY	0.0020	0.0489
63	EMPTY	0.0009	0.0221
64	EMPTY	0.0019	0.0965
65	EMPTY	0.0022	0.1110
66	EMPTY	0.0008	0.0402
67	EMPTY	0.0016	0.0799
68	EMPTY	0.0020	0.0995
69	EMPTY	0.0018	0.0891
70	EMPTY	0.0012	0.0592
71	EMPTY	0.0026	0.1273
72	EMPTY	0.0017	0.0830
73	EMPTY	0.0025	0.1213
74	EMPTY	0.0007	0.0338
75	EMPTY	0.0027	0.1298
76	EMPTY	0.0017	0.0814
77	EMPTY	0.0022	0.1048
78	EMPTY	0.0026	0.1230
79	EMPTY	0.0018	0.0844
80	PAN020136	0.3952	3.3675
81	PAN050136	0.7446	2.8325
82	PAN070136	1.1001	7.1897
83	PAN080136	1.4496	22.8100
84	PAN090136	0.0595	0.5303
85	PAN100136	0.4135	8.4058
86	PAN105136	0.2243	7.7058
87	PAN110136	1.0758	28.3553
88	PAN115136	0.2930	25.9430
89	PAN120136	0.3295	9.2421
90	PAN125136	0.5219	42.2113
91	PAN130136	0.2945	29.5505
92	PAN120048	0.7401	12.7318
93	PAN130048	0.8591	344.7432
94	PAN120224	0.3463	7.8860
95	PAN130224	0.5204	112.0103
96	PAN120312	0.4547	9.5815
97	PAN130312	0.0427	19.8790
98	PAB000136	0.0412	0.1021
99	PAB100136	0.0632	0.1475
100	PAB125136	0.0851	0.1966

Test: Aug01_16

dif

Date: Wed Aug 1 18:23:11 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1099	0.2740
102	PRV000001	0.0196	0.0993
103	PSR000001	0.0952	0.2227
104	PFM000001	0.0146	0.2260
105	PAN000136	1.2177	1.4692
106	PFM000002	0.0151	0.2334
107	EMPTY	0.0001	2.3810
108	EMPTY	0.1779	1.8239
109	EMPTY	0.0004	13.3333
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0781	0.0538
113	VPW000002	0.0468	0.0276
114	VPW000003	0.0352	0.0168
115	VPW000004	0.0039	0.0026
116	VPW000005	0.0390	0.0196
117	VPW000006	0.0156	0.0074
118	IPW000001	0.5465	0.0705
119	IPW000002	6.0106	0.3310
120	IPW000003	2.2620	0.1217
121	IPW000004	1.5723	0.2932
122	IPW000005	0.0684	0.0193
123	IPW000006	0.1074	0.0291
124	EMPTY	0.0009	5.1429
125	EMPTY	0.0006	4.8387
126	EMPTY	0.0008	5.8823
127	EMPTY	0.0006	3.7037
128	IHT000001	0.0508	0.0279
129	IHT000002	0.0469	0.0250
130	IHT000003	0.0977	0.0516
131	IHT000004	0.1250	0.0672
132	IHT000005	0.1133	0.0616
133	IHT000006	0.0429	0.0241
134	IHT000007	0.0117	0.0063
135	IHT000008	0.0703	0.0381
136	IHT000009	0.0156	0.0084
137	IHT000010	0.1563	0.0831
138	IHT000011	0.1836	0.0990
139	IHT000012	0.1563	0.0857
140	IHT000013	0.1563	0.1190
141	IHT000014	0.1797	0.0986
142	IHT000015	0.0860	0.0633
143	IHT000016	0.0781	0.0618
144	IHT000017	0.4922	0.3250
145	IHT000018	0.0078	0.0051
146	IHT000019	0.0546	0.0369
147	IHT000020	0.0078	0.0051
148	IHT000021	0.0234	1.7300
149	IHT000022	0.0312	0.0238
150	IHT000023	0.0547	0.0367
151	IHT000024	0.0508	0.0446
152	IHT000025	0.0234	0.0157
153	IHT000026	0.0195	0.0130
154	IHT000027	0.0977	0.0762
155	IHT000028	0.0117	0.0090

Test: Aug01_16 dif Date: Wed Aug 1 18:23:11 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1250	0.0836
157	IHT000030	0.1055	0.0693
158	IHT000031	0.0586	0.0390
159	IHT000032	0.0781	0.0514
160	IHT000033	0.0977	0.0643
161	IHT000034	0.0235	0.0176
162	IHT000035	0.0625	0.0355
163	IHT000036	0.0001	0.0001

Velocity 1 = 6.6542 (ft/sec) (+/- 4.0956 %)
Velocity 2 = 6.6580 (ft/sec) (+/- 2.1453 %)
Pressure drop = -3.0618 (psi)
Tsats in = 267.7970 (deg F) Tsats out = 271.8961 (deg F)
Phi inner = 199.7250 (kBtu/hr-ft2) (+/- 1.2828 %)
Phi outer = 200.5306 (kBtu/hr-ft2) (+/- 1.3393 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.5864	86.4319	86.0685	1.7103e-01	1.9002e+00
1	TRF000002	86.0041	86.6347	86.3405	1.2012e-01	1.9002e+00
2	TFM000001	87.8180	88.5532	88.1753	1.8841e-01	1.9002e+00
3	TIN000001	87.2691	87.7956	87.5514	1.4490e-01	1.9002e+00
4	TRV000001	88.4081	89.3491	88.8688	2.0818e-01	1.9002e+00
5	TSR000001	149.6184	152.9992	150.8597	8.7960e-01	1.9044e+00
6	TAO020136	103.2871	105.5712	104.3006	5.6112e-01	1.9008e+00
7	TAO050136	210.2238	213.2702	211.4838	6.1696e-01	1.9134e+00
8	TAO070136	214.6010	218.3433	216.5862	9.2791e-01	1.9144e+00
9	TAO080136	253.7644	255.6190	254.8659	3.6133e-01	1.9229e+00
10	TAO090136	264.2392	265.8122	264.9132	3.7655e-01	1.9254e+00
11	TAO100136	262.8422	265.0635	263.7276	5.2097e-01	1.9251e+00
12	TAO105136	268.3666	269.6631	268.9518	3.0424e-01	1.9265e+00
13	TAO110136	277.8387	279.2037	278.4869	2.6997e-01	1.9291e+00
14	TAO115136	273.0225	274.5917	273.8798	3.5717e-01	1.9278e+00
15	TAO120136	287.6444	289.0165	288.4055	2.6103e-01	1.9319e+00
16	TAO125136	234.4912	236.2810	235.5229	3.2516e-01	1.9184e+00
17	TAO130136	282.9953	284.7109	283.8900	4.2070e-01	1.9306e+00
18	TAO120048	117.2502	118.4802	117.8441	3.3199e-01	1.9015e+00
19	TAO130048	288.6396	289.9138	289.2296	3.2182e-01	1.9321e+00
20	TAO120224	287.5596	288.9310	288.0351	2.7643e-01	1.9318e+00
21	TAO130224	272.7401	274.0215	273.2933	2.9759e-01	1.9276e+00
22	TAO120312	281.2386	282.7081	281.9661	3.1981e-01	1.9300e+00
23	TAO130312	277.6743	278.5919	278.0455	1.9628e-01	1.9289e+00
24	TRT020000	208.5960	210.1354	209.5236	3.2393e-01	1.9131e+00
25	TRT070000	247.1573	248.7599	247.8286	4.2654e-01	1.9212e+00
26	TRT100000	276.8633	278.0570	277.5061	2.5237e-01	1.9288e+00
27	TRT120000	286.9209	288.0172	287.6185	2.5573e-01	1.9316e+00
28	TRT125000	257.7221	289.1474	281.1824	6.9074e+00	1.9298e+00
29	TRT130000	277.0232	278.3089	277.5929	3.7183e-01	1.9288e+00
30	EMPTY	39.3761	40.2940	39.8811	2.0734e-01	1.9011e+00
31	TAF050136	145.8943	148.7906	147.1938	7.8085e-01	1.9040e+00
32	TAF070136	170.4401	174.3556	171.6008	1.0078e+00	1.9069e+00
33	TAF080136	255.4139	259.3861	257.3639	8.1566e-01	1.9235e+00
34	TAF090136	100.3668	101.6133	100.9073	2.7270e-01	1.9006e+00
35	TAF100136	205.0074	207.5117	205.7784	5.7248e-01	1.9124e+00
36	TAF105136	209.3202	211.3155	210.4424	4.2240e-01	1.9132e+00
37	TAF110136	216.0521	219.0943	217.1330	5.1162e-01	1.9145e+00
38	TAF115136	222.7337	225.0094	223.7732	4.7307e-01	1.9159e+00
39	TAF120136	262.8574	265.6256	263.9171	5.1342e-01	1.9252e+00
40	TAF125136	235.8072	237.7729	236.6129	4.0134e-01	1.9186e+00
41	TAF130136	244.3727	248.0179	246.1005	8.4568e-01	1.9208e+00
42	TAF120048	228.9723	231.6384	230.4048	5.6675e-01	1.9173e+00
43	TAF130048	251.6618	260.7774	254.6753	2.3754e+00	1.9228e+00
44	TAF120224	226.2121	229.2413	227.5495	6.0838e-01	1.9166e+00
45	TAF130224	234.9255	236.3484	235.6693	2.7514e-01	1.9184e+00

Test: Aug01_17

sum1

Date: Wed Aug 1 18:39:22 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1813	1.7379e-01	1.9010e+00
47	EMPTY	39.8352	40.2940	40.0096	1.3563e-01	1.9011e+00
48	TAI130048	278.3932	280.2319	279.0737	3.6064e-01	1.9292e+00
49	TAI130136	283.2556	284.4439	283.8227	2.1230e-01	1.9306e+00
50	TAI130224	280.1584	282.0912	281.1382	5.0946e-01	1.9298e+00
51	TAI130312	277.4677	278.5734	278.0060	2.6606e-01	1.9289e+00
52	TRR130000	141.5530	142.7579	142.2156	3.0220e-01	1.9035e+00
53	TSI000001	65.6840	66.4321	66.0384	1.7986e-01	1.9000e+00
54	TSI000002	73.3340	76.0870	74.7874	7.1282e-01	1.9000e+00
55	TSO000001	64.9108	65.6627	65.3571	2.1418e-01	1.9000e+00
56	TSO000002	84.5495	85.7082	85.1012	2.4128e-01	1.9002e+00
57	TAF020136	106.9168	110.5551	108.4063	9.0165e-01	1.9010e+00
58	TAF120312	223.3647	225.4563	224.2703	5.0768e-01	1.9160e+00
59	TAF130312	242.2923	244.7291	243.6272	4.6112e-01	1.9202e+00
60	EMPTY	4.0332	4.0625	4.0514	6.0843e-03	0.0000e+00
61	EMPTY	4.0234	4.0381	4.0333	3.8825e-03	0.0000e+00
62	EMPTY	4.0039	4.0234	4.0157	3.5691e-03	0.0000e+00
63	EMPTY	4.0039	4.0137	4.0077	2.2689e-03	0.0000e+00
64	EMPTY	1.9336	1.9434	1.9381	1.6624e-03	0.0000e+00
65	EMPTY	1.9482	1.9580	1.9528	1.5314e-03	0.0000e+00
66	EMPTY	1.9580	1.9629	1.9601	2.4344e-03	0.0000e+00
67	EMPTY	1.9678	1.9775	1.9726	1.2041e-03	0.0000e+00
68	EMPTY	1.9775	1.9873	1.9777	1.3811e-03	0.0000e+00
69	EMPTY	1.9873	1.9922	1.9885	2.1065e-03	0.0000e+00
70	EMPTY	1.9922	1.9971	1.9970	6.9053e-04	0.0000e+00
71	EMPTY	2.0068	2.0166	2.0117	9.8648e-04	0.0000e+00
72	EMPTY	2.0068	2.0215	2.0184	2.9197e-03	0.0000e+00
73	EMPTY	2.0313	2.0361	2.0317	1.4797e-03	0.0000e+00
74	EMPTY	2.0410	2.0459	2.0411	6.9053e-04	0.0000e+00
75	EMPTY	2.0508	2.0557	2.0516	1.8082e-03	0.0000e+00
76	EMPTY	2.0557	2.0605	2.0602	1.3381e-03	0.0000e+00
77	EMPTY	2.0703	2.0801	2.0711	2.0598e-03	0.0000e+00
78	EMPTY	2.0850	2.0898	2.0870	2.4344e-03	0.0000e+00
79	EMPTY	2.0996	2.1045	2.1044	6.9053e-04	0.0000e+00
80	PAN020136	-19.9023	4.4355	-8.8839	6.5318e+00	8.7028e-01
81	PAN050136	-37.8635	-16.3486	-27.4143	5.1303e+00	1.6814e+00
82	PAN070136	-25.8662	-4.2750	-16.4714	5.8484e+00	8.7097e-01
83	PAN080136	-14.0791	-2.1009	-7.4720	3.6224e+00	8.7020e-01
84	PAN090136	-13.2045	-0.6160	-10.0551	3.6803e+00	8.7036e-01
85	PAN100136	-9.5660	16.6791	2.4351	6.5875e+00	8.7002e-01
86	PAN105136	-6.0984	1.9888	-2.6667	1.6333e+00	8.7003e-01
87	PAN110136	-6.7512	-0.3425	-3.4080	1.5184e+00	8.7004e-01
88	PAN115136	-5.9237	1.4768	-2.5484	1.9891e+00	8.7002e-01
89	PAN120136	-5.2620	0.9178	-2.2240	1.4070e+00	8.7002e-01
90	PAN125136	-3.2124	-0.1606	-1.9337	7.7354e-01	8.7001e-01
91	PAN130136	-1.9682	-0.7475	-1.2922	2.6963e-01	8.7001e-01
92	PAN120048	-8.4421	-3.6356	-6.3334	1.1141e+00	8.7014e-01
93	PAN130048	-5.4637	-3.0986	-4.4612	4.6061e-01	8.7007e-01
94	PAN120224	-7.1333	-1.7927	-5.0687	1.2228e+00	8.7009e-01
95	PAN130224	-3.9069	-1.6181	-2.8571	4.4502e-01	8.7003e-01
96	PAN120312	-8.6534	-2.5499	-5.0630	1.2430e+00	8.7009e-01
97	PAN130312	-5.8804	-0.6161	-3.3886	8.7065e-01	8.7004e-01
98	PAB000136	39.8398	40.7095	40.2884	2.5529e-01	5.8868e-01
99	PAB100136	42.6145	42.8892	42.7180	6.7207e-02	5.8975e-01
100	PAB125136	43.0547	43.2378	43.1407	4.9493e-02	5.8994e-01

Test: Aug01_17

sum1

Date: Wed Aug 1 18:39:22 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0372	40.5021	39.9161	4.1414e-01	7.5661e-01
102	PRV000001	19.6068	19.8509	19.7264	3.0104e-02	7.5162e-01
103	PSR000001	42.6804	42.8025	42.7268	5.9853e-02	7.5757e-01
104	PFM000001	6.4667	6.8330	6.6865	7.6263e-02	5.0028e-01
105	PAN000136	-99.3604	-71.8946	-84.7669	7.7788e+00	4.9246e+00
106	PFM000002	6.6290	6.7800	6.6941	3.7847e-02	2.0070e-01
107	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-7.4316	-9.8238	5.2876e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	145.0458	145.6318	145.2803	1.3669e-01	1.1899e+00
113	VPW000002	169.4674	169.8580	169.6236	8.8233e-02	1.3007e+00
114	VPW000003	209.0370	209.4276	209.1620	1.1679e-01	1.4937e+00
115	VPW000004	148.9295	149.3201	149.1757	1.1712e-01	1.2072e+00
116	VPW000005	198.5314	199.1174	198.7462	1.5906e-01	1.4416e+00
117	VPW000006	210.2652	210.6558	210.4606	1.0440e-01	1.5002e+00
118	IPW000001	780.9750	788.7844	784.8796	2.0872e+00	1.0201e+01
119	IPW000002	1798.5450	1806.3501	1802.4092	2.2122e+00	1.6382e+01
120	IPW000003	1843.5374	1849.3875	1847.3594	1.5238e+00	1.6691e+01
121	IPW000004	536.3206	539.2502	537.9708	9.7102e-01	4.6970e+00
122	IPW000005	354.3722	355.8369	355.1339	2.9853e-01	3.4455e+00
123	IPW000006	366.8213	368.7744	367.7491	4.2142e-01	3.5271e+00
124	EMPTY	-0.0293	-0.0098	-0.0169	4.0924e-03	0.0000e+00
125	EMPTY	-0.0244	-0.0049	-0.0130	3.5030e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0123	3.3073e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.0309e-03	0.0000e+00
128	IHT000001	181.0434	183.5825	182.3051	6.0000e-01	4.4870e+00
129	IHT000002	186.2906	188.6343	187.5133	5.3643e-01	4.5085e+00
130	IHT000003	187.8042	190.1480	189.1597	5.3439e-01	4.5153e+00
131	IHT000004	184.5628	187.1019	185.8285	5.6530e-01	4.5015e+00
132	IHT000005	182.6059	184.7544	183.6840	5.4282e-01	4.4927e+00
133	IHT000006	176.6977	179.0415	177.9633	5.7078e-01	4.4696e+00
134	IHT000007	185.2915	187.6352	186.6078	5.4791e-01	4.5047e+00
135	IHT000008	183.4360	185.5844	184.5414	5.2587e-01	4.4962e+00
136	IHT000009	183.7628	186.1065	185.0323	5.3996e-01	4.4982e+00
137	IHT000010	186.7713	188.9198	187.9081	5.8353e-01	4.5101e+00
138	IHT000011	184.2661	186.4145	185.3207	5.7045e-01	4.4994e+00
139	IHT000012	181.0847	183.4285	182.0966	5.8219e-01	4.4862e+00
140	IHT000013	130.2171	132.5608	131.2132	5.4712e-01	4.3048e+00
141	IHT000014	180.6641	183.3984	181.9375	5.3414e-01	4.4855e+00
142	IHT000015	134.7168	136.6699	135.7754	5.1006e-01	4.3190e+00
143	IHT000016	125.2554	127.2085	126.3374	4.9001e-01	4.2902e+00
144	IHT000017	149.6470	152.5766	151.3110	7.4372e-01	4.3703e+00
145	IHT000018	151.3897	154.5147	153.0420	5.8953e-01	4.3763e+00
146	IHT000019	146.7210	149.0647	147.7875	5.7210e-01	4.3582e+00
147	IHT000020	150.3343	152.6780	151.5258	5.6393e-01	4.3710e+00
148	IHT000021	-2.8057	0.1240	-1.3682	7.0117e-01	4.1000e+00
149	IHT000022	129.8866	132.4256	131.1757	5.8261e-01	4.3047e+00
150	IHT000023	147.8215	150.3606	149.1105	5.9843e-01	4.3627e+00
151	IHT000024	112.6089	115.1480	113.7964	5.8105e-01	4.2550e+00
152	IHT000025	147.2731	149.8122	148.5739	5.7400e-01	4.3609e+00
153	IHT000026	149.0497	151.3935	150.0810	5.4109e-01	4.3661e+00
154	IHT000027	127.1146	129.2631	128.2045	5.7465e-01	4.2958e+00
155	IHT000028	129.0490	131.9787	130.2990	6.5078e-01	4.3021e+00

Test: Aug01_17

sum1

Date: Wed Aug 1 18:39:22 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	151.2845	149.5190	6.7769e-01	4.3641e+00
157	IHT000030	151.1569	154.2819	152.2974	6.7815e-01	4.3737e+00
158	IHT000031	148.8770	152.0020	150.1035	6.8007e-01	4.3661e+00
159	IHT000032	150.8789	153.8086	151.9141	6.9166e-01	4.3724e+00
160	IHT000033	150.8789	153.6133	151.8437	6.7475e-01	4.3721e+00
161	IHT000034	132.7749	134.9234	133.6460	5.3118e-01	4.3123e+00
162	IHT000035	175.2629	177.4113	176.0988	5.5389e-01	4.4622e+00
163	IHT000036	131.0622	133.4059	132.0739	5.4774e-01	4.3075e+00

Test: Aug01_17

sum2

Date: Wed Aug 1 18:39:22 1990

Page: 1

Velocity 1 = 6.6388 (ft/sec) (+/- 4.1116 %)
Velocity 2 = 6.6578 (ft/sec) (+/- 2.1453 %)
Pressure drop = -3.0287 (psi)
Tsats in = 267.7740 (deg F) Tsats out = 271.8974 (deg F)
Phi inner = 199.4519 (kBtu/hr-ft2) (+/- 1.2830 %)
Phi outer = 200.1135 (kBtu/hr-ft2) (+/- 1.3396 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	85.7979	86.4319	86.1614	1.9586e-01	1.9002e+00
1	TRF000002	86.2143	86.6347	86.4498	1.3851e-01	1.9002e+00
2	TFM000001	87.5041	88.3430	87.9535	1.8623e-01	1.9002e+00
3	TIN000001	86.7434	87.5855	87.2822	1.7233e-01	1.9002e+00
4	TRV000001	88.3046	89.1423	88.7232	2.1560e-01	1.9002e+00
5	TSR000001	145.6284	147.6249	146.7465	5.4446e-01	1.9040e+00
6	TAO020136	99.0190	101.5188	100.0988	6.0593e-01	1.9006e+00
7	TAO050136	210.1274	212.9859	211.0999	6.3437e-01	1.9134e+00
8	TAO070136	214.5049	219.2047	216.3824	1.1236e+00	1.9144e+00
9	TAO080136	253.5789	255.1570	254.7147	3.4607e-01	1.9228e+00
10	TAO090136	263.5923	265.4429	264.6584	3.9221e-01	1.9254e+00
11	TAO100136	262.3792	264.6012	263.4911	5.0251e-01	1.9251e+00
12	TAO105136	267.9962	269.6633	268.6704	3.2848e-01	1.9264e+00
13	TAO110136	277.8360	278.8412	278.3750	2.4025e-01	1.9290e+00
14	TAO115136	272.8387	274.4072	273.5404	3.5175e-01	1.9277e+00
15	TAO120136	287.6449	288.7423	288.2191	2.3099e-01	1.9318e+00
16	TAO125136	233.6423	236.7508	234.6681	5.6609e-01	1.9182e+00
17	TAO130136	280.5478	282.3636	281.2184	3.8483e-01	1.9298e+00
18	TAO120048	119.1949	120.4242	119.8180	2.9009e-01	1.9017e+00
19	TAO130048	286.6343	287.9112	287.3433	2.5704e-01	1.9316e+00
20	TAO120224	287.1933	288.6563	287.9074	3.0953e-01	1.9317e+00
21	TAO130224	273.3787	274.8444	274.2038	3.2389e-01	1.9279e+00
22	TAO120312	281.0540	282.4332	281.7016	3.1405e-01	1.9300e+00
23	TAO130312	278.9586	279.6933	279.3258	2.0657e-01	1.9293e+00
24	TRT020000	208.3069	210.0395	209.1849	4.0535e-01	1.9130e+00
25	TRT070000	246.2140	249.0410	247.6132	5.6400e-01	1.9211e+00
26	TRT100000	276.5879	277.5993	277.1690	2.2163e-01	1.9287e+00
27	TRT120000	286.3720	287.7433	287.1473	3.1960e-01	1.9315e+00
28	TRT125000	253.0947	338.9012	275.6420	1.8343e+01	1.9283e+00
29	TRT130000	280.6905	282.7957	281.7899	3.9563e-01	1.9300e+00
30	EMPTY	39.3761	40.5234	39.9086	2.0960e-01	1.9011e+00
31	TAF050136	145.0950	148.4918	146.8070	6.7609e-01	1.9040e+00
32	TAF070136	169.8524	173.7707	171.3470	9.9426e-01	1.9069e+00
33	TAF080136	255.5095	259.1102	257.2762	8.1851e-01	1.9235e+00
34	TAF090136	100.3673	101.5097	100.9782	2.7251e-01	1.9006e+00
35	TAF100136	204.4286	206.8384	205.4469	6.3243e-01	1.9123e+00
36	TAF105136	208.9396	210.7479	209.9452	4.6882e-01	1.9131e+00
37	TAF110136	215.8626	217.9554	216.8219	4.3554e-01	1.9145e+00
38	TAF115136	221.9758	223.8735	223.2580	3.9152e-01	1.9158e+00
39	TAF120136	262.3963	264.6126	263.5894	4.6621e-01	1.9251e+00
40	TAF125136	235.5273	237.7729	236.7148	4.5738e-01	1.9186e+00
41	TAF130136	240.1559	244.0912	241.4498	7.6287e-01	1.9197e+00
42	TAF120048	228.0188	230.7811	229.7910	5.0480e-01	1.9171e+00
43	TAF130048	248.2995	253.9913	250.0229	9.7994e-01	1.9217e+00
44	TAF120224	225.8322	228.6738	227.2847	6.8409e-01	1.9166e+00
45	TAF130224	235.0204	236.3479	235.6994	3.3085e-01	1.9184e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1216	2.1892e-01	1.9010e+00
47	EMPTY	39.8352	40.0646	40.0234	8.9053e-02	1.9011e+00
48	TAI130048	276.9218	278.5776	277.7681	4.0368e-01	1.9289e+00
49	TAI130136	282.5240	283.9879	283.2382	2.7923e-01	1.9304e+00
50	TAI130224	282.2752	284.0220	282.9557	3.5299e-01	1.9303e+00
51	TAI130312	278.5734	279.6780	279.0960	2.7490e-01	1.9292e+00
52	TRR130000	141.8555	143.4599	142.5531	4.0473e-01	1.9035e+00
53	TSI000001	65.6835	66.5389	66.0900	2.3057e-01	1.9000e+00
54	TSI000002	73.4397	75.8771	74.4195	5.2824e-01	1.9000e+00
55	TSO000001	64.8021	65.7696	65.3611	2.1160e-01	1.9000e+00
56	TSO000002	84.6542	85.6030	85.0383	2.3573e-01	1.9002e+00
57	TAF020136	106.3953	109.9319	108.0605	7.4544e-01	1.9010e+00
58	TAF120312	222.6038	225.2658	224.0043	6.7521e-01	1.9159e+00
59	TAF130312	242.3862	244.5410	243.6499	5.0198e-01	1.9202e+00
60	EMPTY	4.0381	4.0576	4.0512	4.5677e-03	0.0000e+00
61	EMPTY	4.0283	4.0381	4.0323	3.2253e-03	0.0000e+00
62	EMPTY	4.0088	4.0186	4.0150	3.1257e-03	0.0000e+00
63	EMPTY	4.0039	4.0088	4.0068	2.4164e-03	0.0000e+00
64	EMPTY	1.9336	1.9385	1.9374	2.0432e-03	0.0000e+00
65	EMPTY	1.9482	1.9531	1.9518	2.2146e-03	0.0000e+00
66	EMPTY	1.9531	1.9629	1.9585	1.7784e-03	0.0000e+00
67	EMPTY	1.9678	1.9775	1.9722	1.7784e-03	0.0000e+00
68	EMPTY	1.9775	1.9775	1.9775	0.0000e+00	0.0000e+00
69	EMPTY	1.9873	1.9922	1.9875	9.6655e-04	0.0000e+00
70	EMPTY	1.9922	1.9971	1.9970	6.9053e-04	0.0000e+00
71	EMPTY	2.0068	2.0215	2.0118	1.8429e-03	0.0000e+00
72	EMPTY	2.0166	2.0215	2.0172	1.6028e-03	0.0000e+00
73	EMPTY	2.0313	2.0361	2.0313	6.9053e-04	0.0000e+00
74	EMPTY	2.0361	2.0410	2.0408	9.6655e-04	0.0000e+00
75	EMPTY	2.0508	2.0557	2.0510	9.6655e-04	0.0000e+00
76	EMPTY	2.0557	2.0605	2.0593	2.1635e-03	0.0000e+00
77	EMPTY	2.0703	2.0752	2.0704	6.9053e-04	0.0000e+00
78	EMPTY	2.0850	2.0898	2.0853	1.1714e-03	0.0000e+00
79	EMPTY	2.0996	2.1045	2.1035	1.9730e-03	0.0000e+00
80	PAN020136	-19.4445	6.5717	-8.7817	6.5050e+00	8.7028e-01
81	PAN050136	-36.1850	-14.6701	-25.6107	5.1937e+00	1.6812e+00
82	PAN070136	-25.8662	-5.4957	-15.7069	5.1444e+00	8.7089e-01
83	PAN080136	-14.0791	-0.1936	-7.5208	4.0069e+00	8.7020e-01
84	PAN090136	-13.2045	-5.1173	-11.4482	2.4128e+00	8.7047e-01
85	PAN100136	-6.8194	14.4666	3.5245	5.6054e+00	8.7004e-01
86	PAN105136	-6.4798	1.6836	-2.6499	1.7296e+00	8.7003e-01
87	PAN110136	-6.4460	0.1153	-3.0311	1.4644e+00	8.7003e-01
88	PAN115136	-6.9155	0.6376	-2.7010	1.5942e+00	8.7003e-01
89	PAN120136	-6.0250	1.4518	-2.5872	1.7933e+00	8.7002e-01
90	PAN125136	-3.1361	2.0519	-1.9673	1.0060e+00	8.7001e-01
91	PAN130136	-2.2733	-1.2052	-1.8324	2.4772e-01	8.7001e-01
92	PAN120048	-7.6029	-3.7882	-5.7810	1.0277e+00	8.7012e-01
93	PAN130048	-5.8451	-4.0904	-5.2119	3.9275e-01	8.7010e-01
94	PAN120224	-8.2014	-2.0216	-5.1176	1.4375e+00	8.7009e-01
95	PAN130224	-5.8906	-3.1440	-4.6943	6.0810e-01	8.7008e-01
96	PAN120312	-9.5689	-2.1684	-5.3865	1.8071e+00	8.7010e-01
97	PAN130312	-6.2618	-3.2101	-4.9114	7.8007e-01	8.7009e-01
98	PAB000136	39.8398	40.8011	40.2728	2.8343e-01	5.8867e-01
99	PAB100136	42.5230	42.9350	42.6988	8.4943e-02	5.8974e-01
100	PAB125136	43.0547	43.2378	43.1417	4.3624e-02	5.8994e-01

Test: Aug01_17

sum2

Date: Wed Aug 1 18:39:22 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0372	40.5021	39.9430	4.2436e-01	7.5662e-01
102	PRV000001	19.7289	19.9730	19.8485	3.0104e-02	7.5164e-01
103	PSR000001	42.9246	43.0466	43.0149	5.4088e-02	7.5767e-01
104	PFM000001	6.4667	6.8330	6.6553	8.3562e-02	5.0028e-01
105	PAN000136	-96.6138	-70.9791	-83.8513	8.2959e+00	4.9245e+00
106	PFM000002	6.6290	6.7800	6.6941	3.6925e-02	2.0070e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.6624e-03	0.0000e+00
108	EMPTY	-10.0000	-6.9092	-9.7476	6.5007e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0034	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	144.8505	145.4365	145.1982	1.6408e-01	1.1896e+00
113	VPW000002	169.4674	169.8580	169.6705	1.0410e-01	1.3009e+00
114	VPW000003	208.4510	209.4276	209.1894	1.4916e-01	1.4938e+00
115	VPW000004	148.7342	149.3201	149.1288	1.3945e-01	1.2069e+00
116	VPW000005	198.5314	199.1174	198.8087	1.2534e-01	1.4419e+00
117	VPW000006	210.2652	210.6558	210.4059	1.3111e-01	1.4999e+00
118	IPW000001	784.8797	790.7367	787.5742	1.2404e+00	1.0214e+01
119	IPW000002	1788.7887	1794.6425	1791.2858	1.5788e+00	1.6305e+01
120	IPW000003	1841.5874	1847.4374	1844.0835	1.8071e+00	1.6669e+01
121	IPW000004	538.2737	539.7385	539.1231	3.5307e-01	4.7053e+00
122	IPW000005	355.3487	356.3252	355.7393	2.9592e-01	3.4494e+00
123	IPW000006	366.8213	369.7510	367.8468	7.1986e-01	3.5277e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.9901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.5908e-03	0.0000e+00
128	IHT000001	180.6528	183.9731	182.2621	6.5621e-01	4.4869e+00
129	IHT000002	186.0952	189.2202	187.5523	6.2167e-01	4.5086e+00
130	IHT000003	188.1949	190.9292	189.2262	6.2768e-01	4.5156e+00
131	IHT000004	185.1488	187.2972	185.8558	5.8646e-01	4.5016e+00
132	IHT000005	182.8012	184.9497	183.6918	5.7475e-01	4.4927e+00
133	IHT000006	177.0883	179.2368	178.0063	5.7757e-01	4.4697e+00
134	IHT000007	185.6821	188.0259	186.6352	5.6032e-01	4.5048e+00
135	IHT000008	183.6313	185.7797	184.5922	5.1726e-01	4.4964e+00
136	IHT000009	183.9581	187.3018	185.0245	5.4134e-01	4.4982e+00
137	IHT000010	187.1620	189.1151	188.0214	5.2497e-01	4.5106e+00
138	IHT000011	184.4614	186.4145	185.3715	5.5329e-01	4.4996e+00
139	IHT000012	181.0847	183.4285	182.1512	5.6801e-01	4.4864e+00
140	IHT000013	130.4124	132.1702	131.2289	5.1098e-01	4.3049e+00
141	IHT000014	180.8594	183.0078	182.0117	5.1486e-01	4.4858e+00
142	IHT000015	134.7168	136.8652	135.7558	4.7259e-01	4.3189e+00
143	IHT000016	125.0601	127.7945	126.3296	5.1335e-01	4.2902e+00
144	IHT000017	149.4516	152.9673	150.7602	6.3534e-01	4.3684e+00
145	IHT000018	151.5850	154.3194	153.0029	5.9164e-01	4.3762e+00
146	IHT000019	146.7210	149.0647	147.8148	5.3959e-01	4.3583e+00
147	IHT000020	150.3343	152.4827	151.4750	4.9025e-01	4.3709e+00
148	IHT000021	-3.1964	-0.0714	-1.5206	6.5802e-01	4.1000e+00
149	IHT000022	129.8866	132.2303	131.0780	5.4140e-01	4.3044e+00
150	IHT000023	147.8215	149.9700	149.0480	5.6226e-01	4.3625e+00
151	IHT000024	112.6089	114.7574	113.7769	5.8059e-01	4.2549e+00
152	IHT000025	147.4685	149.8122	148.6207	5.8427e-01	4.3611e+00
153	IHT000026	148.8544	151.3935	150.0693	5.1492e-01	4.3660e+00
154	IHT000027	126.9193	129.2631	128.1616	5.1864e-01	4.2956e+00
155	IHT000028	129.0490	131.5880	130.2950	6.8446e-01	4.3021e+00

Test: Aug01_17

sum2

Date: Wed Aug 1 18:39:22 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.3549	150.8939	149.5893	6.7824e-01	4.3644e+00
157	IHT000030	151.1569	153.6959	152.3560	7.0698e-01	4.3739e+00
158	IHT000031	149.0723	151.6113	150.2051	6.8117e-01	4.3665e+00
159	IHT000032	150.8789	153.4180	152.0117	7.1572e-01	4.3727e+00
160	IHT000033	150.6836	153.2226	151.9336	7.2006e-01	4.3725e+00
161	IHT000034	132.3843	134.7281	133.5952	6.1130e-01	4.3122e+00
162	IHT000035	175.0676	177.0207	176.1144	5.7691e-01	4.4622e+00
163	IHT000036	130.8669	133.2106	131.9645	5.5648e-01	4.3071e+00

Test: Aug01_17 dif Date: Wed Aug 1 18:39:22 1990 Page: 1

Velocity 1 = 0.015400 (ft/sec)

Velocity 2 = 0.000200 (ft/sec)

Pressure Drop = 0.033100 (psi)

Tsat in = 0.023010 (deg F) Tsat out = 0.001312 (deg F)

Phi inner = 0.273102 (kBtu/hr-ft2) Phi outer = 0.417099 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0929	0.1079
1	TRF000002	0.1093	0.1266
2	TFM000001	0.2218	0.2515
3	TIN000001	0.2692	0.3075
4	TRV000001	0.1456	0.1638
5	TSR000001	4.1132	2.7265
6	TAO020136	4.2018	4.0285
7	TAO050136	0.3839	0.1815
8	TAO070136	0.2038	0.0941
9	TAO080136	0.1512	0.0593
10	TAO090136	0.2548	0.0962
11	TAO100136	0.2365	0.0897
12	TAO105136	0.2814	0.1046
13	TAO110136	0.1119	0.0402
14	TAO115136	0.3394	0.1239
15	TAO120136	0.1864	0.0646
16	TAO125136	0.8548	0.3629
17	TAO130136	2.6716	0.9411
18	TAO120048	1.9739	1.6750
19	TAO130048	1.8863	0.6522
20	TAO120224	0.1277	0.0443
21	TAO130224	0.9105	0.3332
22	TAO120312	0.2645	0.0938
23	TAO130312	1.2803	0.4605
24	TRT020000	0.3387	0.1617
25	TRT070000	0.2154	0.0869
26	TRT100000	0.3371	0.1215
27	TRT120000	0.4712	0.1638
28	TRT125000	5.5404	1.9704
29	TRT130000	4.1970	1.5119
30	EMPTY	0.0275	0.0690
31	TAF050136	0.3868	0.2628
32	TAF070136	0.2538	0.1479
33	TAF080136	0.0877	0.0341
34	TAF090136	0.0709	0.0703
35	TAF100136	0.3315	0.1611
36	TAF105136	0.4972	0.2363
37	TAF110136	0.3111	0.1433
38	TAF115136	0.5152	0.2302
39	TAF120136	0.3277	0.1242
40	TAF125136	0.1019	0.0431
41	TAF130136	4.6507	1.8898
42	TAF120048	0.6138	0.2664
43	TAF130048	4.6524	1.8268
44	TAF120224	0.2648	0.1164
45	TAF130224	0.0301	0.0128

#	Name	Abs Diff	%Diff
46	EMPTY	0.0597	0.1564
47	EMPTY	0.0138	0.0345
48	TAI130048	1.3056	0.4678
49	TAI130136	0.5845	0.2059
50	TAI130224	1.8175	0.6465
51	TAI130312	1.0900	0.3921
52	TRR130000	0.3375	0.2373
53	TSI000001	0.0516	0.0781
54	TSI000002	0.3679	0.4919
55	TSO000001	0.0040	0.0061
56	TSO000002	0.0629	0.0739
57	TAF020136	0.3458	0.3190
58	TAF120312	0.2660	0.1186
59	TAF130312	0.0227	0.0093
60	EMPTY	0.0002	0.0049
61	EMPTY	0.0010	0.0248
62	EMPTY	0.0007	0.0174
63	EMPTY	0.0009	0.0225
64	EMPTY	0.0007	0.0361
65	EMPTY	0.0010	0.0512
66	EMPTY	0.0016	0.0816
67	EMPTY	0.0004	0.0203
68	EMPTY	0.0002	0.0101
69	EMPTY	0.0010	0.0503
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0001	0.0050
72	EMPTY	0.0012	0.0595
73	EMPTY	0.0004	0.0197
74	EMPTY	0.0003	0.0147
75	EMPTY	0.0006	0.0292
76	EMPTY	0.0009	0.0437
77	EMPTY	0.0007	0.0338
78	EMPTY	0.0017	0.0815
79	EMPTY	0.0009	0.0428
80	PAN020136	0.1022	1.1504
81	PAN050136	1.8036	6.5790
82	PAN070136	0.7645	4.6414
83	PAN080136	0.0488	0.6531
84	PAN090136	1.3931	13.8547
85	PAN100136	1.0894	44.7374
86	PAN105136	0.0168	0.6300
87	PAN110136	0.3769	11.0593
88	PAN115136	0.1526	5.9881
89	PAN120136	0.3632	16.3309
90	PAN125136	0.0336	1.7376
91	PAN130136	0.5402	41.8047
92	PAN120048	0.5524	8.7220
93	PAN130048	0.7507	16.8273
94	PAN120224	0.0489	0.9647
95	PAN130224	1.8372	64.3030
96	PAN120312	0.3235	6.3895
97	PAN130312	1.5228	44.9389
98	PAB000136	0.0156	0.0387
99	PAB100136	0.0192	0.0449
100	PAB125136	0.0010	0.0023

Test: Aug01_17

dif

Date: Wed Aug 1 18:39:22 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0269	0.0674
102	PRV000001	0.1221	0.6190
103	PSR000001	0.2881	0.6743
104	PFM000001	0.0312	0.4666
105	PAN000136	0.9156	1.0801
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	2.1739
108	EMPTY	0.0762	0.7757
109	EMPTY	0.0005	12.8205
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0821	0.0565
113	VPW000002	0.0469	0.0277
114	VPW000003	0.0274	0.0131
115	VPW000004	0.0469	0.0314
116	VPW000005	0.0625	0.0314
117	VPW000006	0.0547	0.0260
118	IPW000001	2.6946	0.3433
119	IPW000002	11.1234	0.6171
120	IPW000003	3.2759	0.1773
121	IPW000004	1.1523	0.2142
122	IPW000005	0.6054	0.1705
123	IPW000006	0.0977	0.0266
124	EMPTY	0.0034	20.1184
125	EMPTY	0.0011	8.4615
126	EMPTY	0.0043	34.9594
127	EMPTY	0.0001	0.6173
128	IHT000001	0.0430	0.0236
129	IHT000002	0.0390	0.0208
130	IHT000003	0.0665	0.0352
131	IHT000004	0.0273	0.0147
132	IHT000005	0.0078	0.0042
133	IHT000006	0.0430	0.0242
134	IHT000007	0.0274	0.0147
135	IHT000008	0.0508	0.0275
136	IHT000009	0.0078	0.0042
137	IHT000010	0.1133	0.0603
138	IHT000011	0.0508	0.0274
139	IHT000012	0.0546	0.0300
140	IHT000013	0.0157	0.0120
141	IHT000014	0.0742	0.0408
142	IHT000015	0.0196	0.0144
143	IHT000016	0.0078	0.0062
144	IHT000017	0.5508	0.3640
145	IHT000018	0.0391	0.0256
146	IHT000019	0.0273	0.0185
147	IHT000020	0.0508	0.0335
148	IHT000021	0.1524	11.1387
149	IHT000022	0.0977	0.0745
150	IHT000023	0.0625	0.0419
151	IHT000024	0.0195	0.0171
152	IHT000025	0.0468	0.0315
153	IHT000026	0.0117	0.0078
154	IHT000027	0.0429	0.0335
155	IHT000028	0.0040	0.0031

Test: Aug01_17 dif Date: Wed Aug 1 18:39:22 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0703	0.0470
157	IHT000030	0.0586	0.0385
158	IHT000031	0.1016	0.0677
159	IHT000032	0.0976	0.0643
160	IHT000033	0.0899	0.0592
161	IHT000034	0.0508	0.0380
162	IHT000035	0.0156	0.0089
163	IHT000036	0.1094	0.0828

Test: Aug01_18

sum1

Date: Wed Aug 1 18:51:04 1990

Page: 1

Velocity 1 = 6.4395 (ft/sec) (+/- 4.3316 %)

Velocity 2 = 6.4525 (ft/sec) (+/- 2.2017 %)

Pressure drop = -2.7202 (psi)

Tsat in = 267.7156 (deg F) Tsat out = 271.6734 (deg F)

Phi inner = 200.1103 (kBtu/hr-ft2) (+/- 1.2825 %)

Phi outer = 202.0513 (kBtu/hr-ft2) (+/- 1.3377 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.0093	86.6432	86.2037	2.0847e-01	1.9002e+00
1	TRF000002	86.4245	86.8448	86.5717	1.3593e-01	1.9002e+00
2	TFM000001	87.7141	88.5540	88.1612	2.0450e-01	1.9002e+00
3	TIN000001	87.1640	87.7958	87.4315	1.5524e-01	1.9002e+00
4	TRV000001	88.4095	89.2471	88.8637	2.1114e-01	1.9002e+00
5	TSR000001	148.1226	153.0021	150.7546	1.6497e+00	1.9044e+00
6	TAO020136	104.2216	108.0583	106.4312	1.0717e+00	1.9009e+00
7	TAO050136	212.4129	215.3605	213.7439	6.7704e-01	1.9139e+00
8	TAO070136	217.1924	221.5976	219.2102	1.0210e+00	1.9149e+00
9	TAO080136	257.5630	259.2275	258.5446	3.4000e-01	1.9238e+00
10	TAO090136	268.3051	270.5185	269.6027	5.3117e-01	1.9267e+00
11	TAO100136	266.4505	268.2058	267.3290	4.2327e-01	1.9261e+00
12	TAO105136	270.8657	272.9001	272.0365	3.5325e-01	1.9273e+00
13	TAO110136	280.0239	281.3021	280.6536	2.7352e-01	1.9297e+00
14	TAO115136	277.0797	278.3692	277.6932	3.1221e-01	1.9288e+00
15	TAO120136	292.3037	292.9433	292.6125	1.7200e-01	1.9331e+00
16	TAO125136	241.4490	243.1353	242.1141	4.1248e-01	1.9199e+00
17	TAO130136	291.5618	293.6315	292.5916	5.1071e-01	1.9331e+00
18	TAO120048	112.5264	113.7621	113.1461	3.1576e-01	1.9013e+00
19	TAO130048	294.5484	297.7234	296.1981	7.8199e-01	1.9342e+00
20	TAO120224	286.8281	288.3823	287.4961	3.4468e-01	1.9316e+00
21	TAO130224	270.6415	272.6529	271.5716	4.0452e-01	1.9272e+00
22	TAO120312	280.2268	281.7903	280.9645	4.1396e-01	1.9298e+00
23	TAO130312	275.3804	276.6673	275.8016	2.6914e-01	1.9283e+00
24	TRT020000	211.1927	212.5379	211.7710	3.5070e-01	1.9135e+00
25	TRT070000	250.4541	252.5216	251.3924	4.6252e-01	1.9220e+00
26	TRT100000	279.8893	281.4470	280.8038	3.8120e-01	1.9297e+00
27	TRT120000	271.8712	273.4371	272.7163	4.2518e-01	1.9275e+00
28	TRT125000	278.2164	280.2253	279.0739	5.0641e-01	1.9292e+00
29	TRT130000	276.6571	278.4933	277.7679	4.0632e-01	1.9289e+00
30	EMPTY	39.6057	40.2940	39.8168	2.0651e-01	1.9011e+00
31	TAF050136	147.0945	150.6846	148.5940	8.2798e-01	1.9042e+00
32	TAF070136	171.9106	175.8236	173.7257	8.9196e-01	1.9072e+00
33	TAF080136	258.9257	261.5107	260.3565	6.7577e-01	1.9243e+00
34	TAF090136	96.2087	97.3548	96.7523	2.8032e-01	1.9005e+00
35	TAF100136	207.4153	209.8200	208.5949	5.4645e-01	1.9129e+00
36	TAF105136	212.0775	214.5473	213.2575	4.7070e-01	1.9138e+00
37	TAF110136	219.2849	221.8466	220.2051	4.6888e-01	1.9151e+00
38	TAF115136	225.5770	227.5651	226.6697	3.8401e-01	1.9165e+00
39	TAF120136	268.9395	271.0551	269.9755	4.5015e-01	1.9268e+00
40	TAF125136	249.8735	269.3213	259.0078	5.5627e+00	1.9239e+00
41	TAF130136	265.1120	270.0963	267.8925	1.1044e+00	1.9262e+00
42	TAF120048	239.1382	260.6847	247.7935	5.8375e+00	1.9212e+00
43	TAF130048	265.6865	272.0585	270.1670	1.2482e+00	1.9268e+00
44	TAF120224	228.6738	231.6999	229.9359	7.1100e-01	1.9172e+00
45	TAF130224	241.2688	244.1953	242.4679	6.5911e-01	1.9199e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1124	2.2874e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.0417	2.1865e-01	1.9011e+00
48	TAI130048	280.4152	281.7017	281.1228	2.9356e-01	1.9298e+00
49	TAI130136	287.1828	288.6439	287.8786	3.0233e-01	1.9317e+00
50	TAI130224	276.3795	278.5926	277.2964	5.4457e-01	1.9287e+00
51	TAI130312	275.9941	277.8364	276.8401	4.3802e-01	1.9286e+00
52	TRR130000	141.4530	142.9596	142.3750	3.2556e-01	1.9035e+00
53	TSI000001	65.6845	66.6463	66.1180	2.2891e-01	1.9000e+00
54	TSI000002	75.5595	78.4128	76.8000	6.0818e-01	1.9000e+00
55	TSO000001	64.9096	65.8765	65.3500	2.0624e-01	1.9000e+00
56	TSO000002	84.9705	86.2341	85.6171	2.5525e-01	1.9002e+00
57	TAF020136	106.9153	110.7627	108.7444	8.5440e-01	1.9010e+00
58	TAF120312	226.0254	229.8189	227.9856	9.1067e-01	1.9167e+00
59	TAF130312	244.5414	248.2838	245.8390	7.1925e-01	1.9207e+00
60	EMPTY	4.0918	4.1211	4.1053	6.8743e-03	0.0000e+00
61	EMPTY	4.0771	4.1016	4.0862	4.4128e-03	0.0000e+00
62	EMPTY	4.0576	4.0723	4.0678	3.3944e-03	0.0000e+00
63	EMPTY	4.0527	4.0674	4.0596	3.1195e-03	0.0000e+00
64	EMPTY	1.9580	1.9629	1.9598	2.3675e-03	0.0000e+00
65	EMPTY	1.9727	1.9775	1.9748	2.4484e-03	0.0000e+00
66	EMPTY	1.9775	1.9873	1.9827	1.5314e-03	0.0000e+00
67	EMPTY	1.9922	1.9971	1.9958	2.1635e-03	0.0000e+00
68	EMPTY	1.9971	2.0020	2.0017	1.1714e-03	0.0000e+00
69	EMPTY	2.0117	2.0166	2.0120	1.1714e-03	0.0000e+00
70	EMPTY	2.0166	2.0215	2.0199	2.3008e-03	0.0000e+00
71	EMPTY	2.0313	2.0361	2.0358	1.1714e-03	0.0000e+00
72	EMPTY	2.0410	2.0459	2.0412	9.6655e-04	0.0000e+00
73	EMPTY	2.0508	2.0557	2.0555	9.6655e-04	0.0000e+00
74	EMPTY	2.0557	2.0654	2.0635	2.6100e-03	0.0000e+00
75	EMPTY	2.0752	2.0752	2.0752	0.0000e+00	0.0000e+00
76	EMPTY	2.0801	2.0850	2.0806	1.4797e-03	0.0000e+00
77	EMPTY	2.0898	2.0996	2.0948	1.2041e-03	0.0000e+00
78	EMPTY	2.1094	2.1094	2.1094	0.0000e+00	0.0000e+00
79	EMPTY	2.1240	2.1289	2.1241	6.9053e-04	0.0000e+00
80	PAN020136	-19.9023	4.4355	-8.9816	5.8486e+00	8.7029e-01
81	PAN050136	-37.7109	-15.4330	-25.5985	6.2104e+00	1.6812e+00
82	PAN070136	-25.9425	-10.8363	-17.8141	4.0810e+00	8.7114e-01
83	PAN080136	-14.0791	0.0353	-5.9858	4.3843e+00	8.7013e-01
84	PAN090136	-13.2045	0.6810	-9.5058	3.0944e+00	8.7032e-01
85	PAN100136	-7.2009	23.8508	0.2119	7.0770e+00	8.7000e-01
86	PAN105136	-7.4717	0.3866	-3.4876	1.8594e+00	8.7004e-01
87	PAN110136	-7.3615	0.0390	-3.9420	1.9738e+00	8.7006e-01
88	PAN115136	-4.1689	3.6894	-0.8868	1.6329e+00	8.7000e-01
89	PAN120136	-3.1258	-0.6844	-2.1904	5.7193e-01	8.7002e-01
90	PAN125136	-0.0844	1.1364	0.4589	2.8656e-01	8.7000e-01
91	PAN130136	2.4569	5.4323	3.6623	5.8936e-01	8.7005e-01
92	PAN120048	-7.1451	-2.8727	-4.9479	1.0444e+00	8.7009e-01
93	PAN130048	4.2257	6.8197	5.3579	6.3391e-01	8.7010e-01
94	PAN120224	-4.6918	-0.2668	-2.6762	1.1622e+00	8.7003e-01
95	PAN130224	1.2811	3.8750	2.3156	5.2069e-01	8.7002e-01
96	PAN120312	-4.7624	0.8834	-2.0616	1.2781e+00	8.7002e-01
97	PAN130312	0.2994	2.9697	1.5613	5.5494e-01	8.7001e-01
98	PAB000136	39.7482	40.6180	40.2334	2.6207e-01	5.8866e-01
99	PAB100136	42.5230	42.8434	42.6539	8.1683e-02	5.8972e-01
100	PAB125136	42.8716	43.1462	42.9814	6.6046e-02	5.8987e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.0372	40.5021	39.9112	4.3447e-01	7.5661e-01
102	PRV000001	19.7289	19.8509	19.8070	5.9189e-02	7.5163e-01
103	PSR000001	42.0701	42.6804	42.3044	7.3325e-02	7.5742e-01
104	PFM000001	6.1005	6.3752	6.2562	8.1153e-02	5.0024e-01
105	PAN000136	-89.2896	-64.5704	-75.3095	8.0120e+00	4.9236e+00
106	PFM000002	6.1759	6.3605	6.2817	3.7482e-02	2.0062e-01
107	EMPTY	-0.0049	0.0049	0.0046	1.5314e-03	0.0000e+00
108	EMPTY	-10.0000	-7.1533	-9.8316	5.6186e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0043	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	145.0458	145.4365	145.2451	9.2456e-02	1.1898e+00
113	VPW000002	169.4674	169.8580	169.6626	1.2478e-01	1.3009e+00
114	VPW000003	208.8417	209.2323	209.1113	1.1084e-01	1.4934e+00
115	VPW000004	148.9295	149.5155	149.1522	1.4233e-01	1.2071e+00
116	VPW000005	198.5314	198.9220	198.7970	1.1679e-01	1.4418e+00
117	VPW000006	210.2652	210.6558	210.4410	1.2633e-01	1.5001e+00
118	IPW000001	779.0226	784.8797	782.2637	1.4551e+00	1.0188e+01
119	IPW000002	1823.9115	1831.7166	1827.1501	2.2512e+00	1.6552e+01
120	IPW000003	1849.3875	1855.2374	1851.6490	1.3278e+00	1.6721e+01
121	IPW000004	538.2737	539.7385	539.2012	3.4527e-01	4.7058e+00
122	IPW000005	355.8369	357.3016	356.5302	2.9738e-01	3.4544e+00
123	IPW000006	367.7979	368.7744	368.2179	3.2733e-01	3.5301e+00
124	EMPTY	-0.0244	-0.0098	-0.0183	3.9224e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0123	2.6543e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0137	3.4173e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.9280e-03	0.0000e+00
128	IHT000001	180.8481	183.9731	182.2348	6.5227e-01	4.4868e+00
129	IHT000002	186.0952	189.0249	187.4976	6.4801e-01	4.5084e+00
130	IHT000003	187.8042	190.7339	189.1519	6.3288e-01	4.5153e+00
131	IHT000004	184.5628	187.2972	185.7894	6.5678e-01	4.5013e+00
132	IHT000005	182.4106	185.1450	183.6840	6.3287e-01	4.4927e+00
133	IHT000006	176.6977	179.4321	177.9594	6.0517e-01	4.4696e+00
134	IHT000007	185.4868	188.0259	186.6078	6.0078e-01	4.5047e+00
135	IHT000008	183.6313	186.1704	184.5961	5.5160e-01	4.4964e+00
136	IHT000009	183.9581	186.4971	185.0284	5.9352e-01	4.4982e+00
137	IHT000010	186.7713	189.7010	187.9316	6.0927e-01	4.5102e+00
138	IHT000011	184.2661	186.6098	185.3286	5.5546e-01	4.4994e+00
139	IHT000012	180.8894	183.2332	182.0887	5.2941e-01	4.4862e+00
140	IHT000013	130.2171	132.3655	131.2289	4.8918e-01	4.3049e+00
141	IHT000014	180.8594	183.3984	182.0742	5.4432e-01	4.4861e+00
142	IHT000015	134.7168	137.2558	135.7676	5.1280e-01	4.3189e+00
143	IHT000016	125.0601	127.5992	126.3726	5.0998e-01	4.2903e+00
144	IHT000017	149.6470	152.3813	151.2720	5.7242e-01	4.3702e+00
145	IHT000018	151.7803	154.9053	153.0967	6.1487e-01	4.3765e+00
146	IHT000019	146.3304	148.8694	147.7719	5.5227e-01	4.3582e+00
147	IHT000020	150.1390	152.4827	151.5179	5.6965e-01	4.3710e+00
148	IHT000021	-2.8057	-0.2667	-1.4620	6.3459e-01	4.1000e+00
149	IHT000022	130.0819	131.8397	131.1093	4.6490e-01	4.3045e+00
150	IHT000023	148.0168	150.1653	149.1027	5.0403e-01	4.3627e+00
151	IHT000024	112.6089	114.7574	113.7808	4.7021e-01	4.2550e+00
152	IHT000025	147.4685	149.6169	148.6481	4.9278e-01	4.3611e+00
153	IHT000026	149.0497	151.1982	150.0732	4.7443e-01	4.3660e+00
154	IHT000027	127.3100	129.4584	128.2006	4.3968e-01	4.2958e+00
155	IHT000028	129.2443	132.1740	130.2911	6.0716e-01	4.3020e+00

Test: Aug01_18

sum1

Date: Wed Aug 1 18:51:04 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.5502	151.4799	149.5815	5.8399e-01	4.3643e+00
157	IHT000030	151.3522	153.5006	152.3638	5.5760e-01	4.3740e+00
158	IHT000031	149.2676	151.2207	150.1934	5.1571e-01	4.3664e+00
159	IHT000032	151.0742	153.0274	151.9883	5.3151e-01	4.3726e+00
160	IHT000033	150.8789	152.8320	151.9297	5.2034e-01	4.3724e+00
161	IHT000034	132.3843	134.5327	133.6460	4.4505e-01	4.3123e+00
162	IHT000035	174.8723	177.2160	176.1691	5.0341e-01	4.4625e+00
163	IHT000036	130.6716	133.0153	132.0348	4.4203e-01	4.3074e+00

Velocity 1 = 6.4340 (ft/sec) (+/- 4.3381 %)
Velocity 2 = 6.4535 (ft/sec) (+/- 2.2014 %)
Pressure drop = -2.6891 (psi)
Tsat in = 267.8796 (deg F) Tsat out = 271.7195 (deg F)
Phi inner = 200.2402 (kBtu/hr-ft2) (+/- 1.2824 %)
Phi outer = 201.1460 (kBtu/hr-ft2) (+/- 1.3387 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.0093	86.6432	86.3347	2.0569e-01	1.9002e+00
1	TRF000002	86.4245	86.8448	86.6516	1.1888e-01	1.9002e+00
2	TFM000001	87.9238	88.6594	88.2414	1.9606e-01	1.9002e+00
3	TIN000001	87.1640	87.9008	87.5369	1.7309e-01	1.9002e+00
4	TRV000001	88.6185	89.4559	88.9647	2.0649e-01	1.9002e+00
5	TSR000001	146.5277	151.3116	148.9471	1.5466e+00	1.9042e+00
6	TAO020136	95.9913	105.2604	100.4288	1.9157e+00	1.9006e+00
7	TAO050136	212.9854	215.6487	214.1783	6.5683e-01	1.9140e+00
8	TAO070136	217.7674	221.7884	219.7694	8.9373e-01	1.9151e+00
9	TAO080136	258.2093	259.5966	258.9227	3.1566e-01	1.9239e+00
10	TAO090136	268.7672	270.7042	269.7986	4.7467e-01	1.9267e+00
11	TAO100136	266.7280	268.9456	267.8540	5.2812e-01	1.9262e+00
12	TAO105136	271.5129	273.4547	272.4064	4.3820e-01	1.9274e+00
13	TAO110136	280.4803	281.6663	281.0842	2.6312e-01	1.9298e+00
14	TAO115136	277.3559	278.7376	278.1131	3.1259e-01	1.9290e+00
15	TAO120136	292.4862	293.4910	292.9996	2.0711e-01	1.9332e+00
16	TAO125136	241.1669	244.6340	242.7595	6.9881e-01	1.9200e+00
17	TAO130136	291.1167	294.3535	292.5824	6.3416e-01	1.9331e+00
18	TAO120048	117.6602	118.6856	118.1461	2.8075e-01	1.9016e+00
19	TAO130048	294.9113	297.8131	295.9811	7.1616e-01	1.9341e+00
20	TAO120224	286.7377	288.4753	287.6903	3.7100e-01	1.9317e+00
21	TAO130224	270.9146	272.8374	271.7447	4.3030e-01	1.9272e+00
22	TAO120312	280.1348	282.0658	281.2147	3.9222e-01	1.9298e+00
23	TAO130312	275.7493	276.7584	276.1695	2.4138e-01	1.9284e+00
24	TRT020000	211.0963	212.5374	211.8633	3.4254e-01	1.9135e+00
25	TRT070000	251.1121	253.2739	252.0165	4.5652e-01	1.9222e+00
26	TRT100000	279.6148	281.4480	280.5114	4.5567e-01	1.9296e+00
27	TRT120000	272.0542	273.8057	272.8346	3.5146e-01	1.9275e+00
28	TRT125000	278.6737	280.5023	279.4182	4.3239e-01	1.9293e+00
29	TRT130000	277.6667	280.1414	278.8615	5.4634e-01	1.9292e+00
30	EMPTY	39.1464	40.2940	39.8719	2.3350e-01	1.9011e+00
31	TAF050136	147.4939	150.6859	148.9179	7.8822e-01	1.9042e+00
32	TAF070136	172.5963	176.2157	173.9339	8.3728e-01	1.9073e+00
33	TAF080136	259.1141	262.0614	260.6563	6.4765e-01	1.9243e+00
34	TAF090136	99.1212	100.2652	99.6645	2.8356e-01	1.9006e+00
35	TAF100136	207.8963	210.5885	209.0911	6.0214e-01	1.9130e+00
36	TAF105136	212.4574	215.4016	213.6722	5.3786e-01	1.9139e+00
37	TAF110136	219.3794	221.2779	220.4563	4.0700e-01	1.9152e+00
38	TAF115136	226.3342	228.5114	227.2038	4.4789e-01	1.9166e+00
39	TAF120136	269.3074	271.2398	270.2961	4.1785e-01	1.9268e+00
40	TAF125136	253.0205	267.5796	260.9044	4.0581e+00	1.9244e+00
41	TAF130136	266.3149	270.5582	268.3582	8.9609e-01	1.9263e+00
42	TAF120048	241.8820	262.9269	249.9397	5.8884e+00	1.9217e+00
43	TAF130048	268.9222	272.0577	270.5599	7.1956e-01	1.9269e+00
44	TAF120224	229.4312	232.2668	230.5941	6.6243e-01	1.9173e+00
45	TAF130224	241.7407	244.6663	243.1473	6.7778e-01	1.9201e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	1.9291e-01	1.9010e+00
47	EMPTY	39.6057	40.2940	40.0876	1.8102e-01	1.9011e+00
48	TAI130048	280.6912	281.8858	281.2480	2.6976e-01	1.9298e+00
49	TAI130136	287.2743	288.7347	287.8938	3.0089e-01	1.9317e+00
50	TAI130224	276.1024	278.1321	277.3925	4.8151e-01	1.9288e+00
51	TAI130312	276.1779	277.9296	276.9839	3.8241e-01	1.9286e+00
52	TRR130000	142.3562	144.6624	143.4502	5.9495e-01	1.9036e+00
53	TSI000001	65.7920	66.4332	66.1101	1.6080e-01	1.9000e+00
54	TSI000002	76.1951	79.2569	77.5443	7.0415e-01	1.9000e+00
55	TSO000001	64.8015	65.5541	65.2466	1.9053e-01	1.9000e+00
56	TSO000002	85.1810	86.1294	85.6511	2.1929e-01	1.9002e+00
57	TAF020136	107.6438	110.3459	108.9313	6.1440e-01	1.9010e+00
58	TAF120312	227.0698	230.4812	228.9187	7.3885e-01	1.9169e+00
59	TAF130312	244.6357	248.4693	246.3746	7.3163e-01	1.9208e+00
60	EMPTY	4.0967	4.1357	4.1162	7.4477e-03	0.0000e+00
61	EMPTY	4.0869	4.1113	4.0978	5.0580e-03	0.0000e+00
62	EMPTY	4.0723	4.0869	4.0795	4.6522e-03	0.0000e+00
63	EMPTY	4.0625	4.0820	4.0720	4.8738e-03	0.0000e+00
64	EMPTY	1.9629	1.9727	1.9652	2.6543e-03	0.0000e+00
65	EMPTY	1.9775	1.9824	1.9801	2.4642e-03	0.0000e+00
66	EMPTY	1.9824	1.9922	1.9893	2.6100e-03	0.0000e+00
67	EMPTY	1.9873	2.0068	2.0000	3.2718e-03	0.0000e+00
68	EMPTY	2.0020	2.0117	2.0068	2.7902e-03	0.0000e+00
69	EMPTY	2.0117	2.0215	2.0178	2.7124e-03	0.0000e+00
70	EMPTY	2.0215	2.0313	2.0247	2.5362e-03	0.0000e+00
71	EMPTY	2.0361	2.0459	2.0400	2.6100e-03	0.0000e+00
72	EMPTY	2.0459	2.0557	2.0478	2.5894e-03	0.0000e+00
73	EMPTY	2.0557	2.0654	2.0599	1.9754e-03	0.0000e+00
74	EMPTY	2.0654	2.0703	2.0688	2.2603e-03	0.0000e+00
75	EMPTY	2.0752	2.0801	2.0791	1.9730e-03	0.0000e+00
76	EMPTY	2.0850	2.0898	2.0866	2.3365e-03	0.0000e+00
77	EMPTY	2.0947	2.0996	2.0992	1.3381e-03	0.0000e+00
78	EMPTY	2.1094	2.1143	2.1142	6.9053e-04	0.0000e+00
79	EMPTY	2.1289	2.1338	2.1297	1.8082e-03	0.0000e+00
80	PAN020136	-19.8260	3.4436	-9.1357	6.2463e+00	8.7030e-01
81	PAN050136	-34.6591	-13.7546	-24.4724	5.8182e+00	1.6811e+00
82	PAN070136	-25.9425	-9.3104	-17.9713	5.2280e+00	8.7116e-01
83	PAN080136	-13.2398	2.4004	-5.7447	3.5275e+00	8.7012e-01
84	PAN090136	-13.2045	0.3758	-8.5170	4.0000e+00	8.7026e-01
85	PAN100136	-7.6586	22.0960	0.8497	8.5011e+00	8.7000e-01
86	PAN105136	-7.7768	-1.3681	-4.1285	1.7563e+00	8.7006e-01
87	PAN110136	-7.3615	1.1834	-2.7030	2.2564e+00	8.7003e-01
88	PAN115136	-5.3133	2.0109	-1.9656	1.7811e+00	8.7001e-01
89	PAN120136	-2.6680	1.2230	-1.5770	9.2370e-01	8.7001e-01
90	PAN125136	0.0682	1.4415	0.5428	3.0645e-01	8.7000e-01
91	PAN130136	2.9146	4.9746	3.9675	4.8302e-01	8.7006e-01
92	PAN120048	-7.2214	-3.9408	-5.5765	6.5778e-01	8.7011e-01
93	PAN130048	4.7597	7.2011	5.6630	6.2161e-01	8.7012e-01
94	PAN120224	-4.0052	1.4117	-2.8593	1.0586e+00	8.7003e-01
95	PAN130224	1.3573	3.2647	2.2530	4.9247e-01	8.7002e-01
96	PAN120312	-4.7624	2.7907	-1.6191	1.5922e+00	8.7001e-01
97	PAN130312	-0.0057	3.0460	1.8680	6.9244e-01	8.7001e-01
98	PAB000136	39.8398	40.8011	40.3442	2.4231e-01	5.8870e-01
99	PAB100136	42.4772	42.8892	42.6859	9.0689e-02	5.8974e-01
100	PAB125136	42.8258	43.2378	43.0144	8.6083e-02	5.8988e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1593	40.6241	39.9405	4.1267e-01	7.5662e-01
102	PRV0000001	19.7289	19.8509	19.7338	2.4164e-02	7.5162e-01
103	PSR0000001	42.1921	42.4363	42.3191	6.5063e-02	7.5743e-01
104	PFM0000001	6.0090	6.4667	6.2452	9.0783e-02	5.0024e-01
105	PAN000136	-87.0008	-62.2816	-74.4489	7.5497e+00	4.9235e+00
106	PFM0000002	6.1927	6.3773	6.2837	4.9602e-02	2.0062e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-3.9746	-9.7145	1.0790e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0041	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	144.8505	145.8271	145.3037	2.1043e-01	1.1900e+00
113	VPW0000002	169.4674	169.8580	169.6470	1.1732e-01	1.3008e+00
114	VPW0000003	208.8417	209.4276	209.1386	1.1995e-01	1.4936e+00
115	VPW0000004	148.7342	149.5155	149.1640	1.8508e-01	1.2071e+00
116	VPW0000005	198.5314	199.1174	198.7813	1.7218e-01	1.4417e+00
117	VPW0000006	210.0698	210.8511	210.4489	1.9092e-01	1.5002e+00
118	IPW0000001	779.0226	786.8320	783.1223	1.9424e+00	1.0192e+01
119	IPW0000002	1808.3014	1820.0089	1815.4821	2.3797e+00	1.6472e+01
120	IPW0000003	1851.3374	1857.1874	1854.5353	1.7512e+00	1.6741e+01
121	IPW0000004	534.3674	537.7854	536.4962	8.2393e-01	4.6865e+00
122	IPW0000005	353.8840	355.8369	354.8409	4.5159e-01	3.4436e+00
123	IPW0000006	365.8448	367.3096	366.5284	4.3000e-01	3.5191e+00
124	EMPTY	-0.0293	-0.0098	-0.0179	3.7706e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3675e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0131	3.6165e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0166	3.5568e-03	0.0000e+00
128	IHT0000001	181.0434	183.9731	182.3051	7.0278e-01	4.4870e+00
129	IHT0000002	186.2906	188.8296	187.5367	7.0574e-01	4.5085e+00
130	IHT0000003	187.9995	190.7339	189.2340	6.8623e-01	4.5156e+00
131	IHT0000004	184.3675	187.4925	185.8793	7.1877e-01	4.5017e+00
132	IHT0000005	182.6059	185.1450	183.7817	6.9193e-01	4.4931e+00
133	IHT0000006	176.5024	179.4321	178.0180	7.2282e-01	4.4698e+00
134	IHT0000007	185.2915	187.8306	186.6391	6.5346e-01	4.5048e+00
135	IHT0000008	183.2407	185.7797	184.5805	5.8262e-01	4.4963e+00
136	IHT0000009	183.7628	186.1065	185.0010	5.5046e-01	4.4981e+00
137	IHT0000010	186.5760	189.8963	188.0292	7.1372e-01	4.5106e+00
138	IHT0000011	183.8755	186.8051	185.3911	6.7377e-01	4.4997e+00
139	IHT0000012	180.6941	184.0144	182.1317	6.9111e-01	4.4863e+00
140	IHT0000013	129.6311	132.5608	131.2328	6.3748e-01	4.3049e+00
141	IHT0000014	180.4688	183.2031	181.9688	6.1058e-01	4.4857e+00
142	IHT0000015	134.1308	137.2558	135.7363	6.3539e-01	4.3188e+00
143	IHT0000016	124.8648	127.7945	126.3569	6.5168e-01	4.2903e+00
144	IHT0000017	149.4516	152.9673	151.0727	7.4373e-01	4.3695e+00
145	IHT0000018	151.3897	154.5147	152.9756	6.1465e-01	4.3761e+00
146	IHT0000019	146.5257	148.6741	147.6625	5.0792e-01	4.3578e+00
147	IHT0000020	150.5296	152.4827	151.4086	4.9166e-01	4.3706e+00
148	IHT0000021	-3.0010	-0.2667	-1.4932	6.2145e-01	4.1000e+00
149	IHT0000022	129.6912	132.2303	131.0858	5.2201e-01	4.3045e+00
150	IHT0000023	147.4309	150.1653	148.9933	5.4391e-01	4.3623e+00
151	IHT0000024	112.2183	114.7574	113.6714	5.0557e-01	4.2547e+00
152	IHT0000025	147.0778	149.6169	148.5817	5.3706e-01	4.3609e+00
153	IHT0000026	148.4638	151.1982	149.9795	5.1834e-01	4.3657e+00
154	IHT0000027	126.7240	129.4584	128.2124	5.3217e-01	4.2958e+00
155	IHT0000028	128.8537	131.5880	130.3224	6.8600e-01	4.3021e+00

Test: Aug01_18

sum2

Date: Wed Aug 1 18:51:04 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.9642	150.6986	149.4995	6.6616e-01	4.3641e+00
157	IHT000030	150.9615	153.6959	152.3052	6.3826e-01	4.3737e+00
158	IHT000031	148.6816	151.4160	150.1426	5.8957e-01	4.3663e+00
159	IHT000032	150.2930	153.6133	151.9649	6.3277e-01	4.3726e+00
160	IHT000033	150.2930	153.6133	151.9023	6.3694e-01	4.3723e+00
161	IHT000034	131.9937	134.9234	133.6577	5.4568e-01	4.3124e+00
162	IHT000035	174.6770	177.4113	176.1652	5.2629e-01	4.4624e+00
163	IHT000036	130.6716	133.4059	132.0544	5.1726e-01	4.3074e+00

Test: Aug01_18 dif Date: Wed Aug 1 18:51:04 1990 Page: 1

Velocity 1 = 0.005500 (ft/sec)

Velocity 2 = 0.001000 (ft/sec)

Pressure Drop = 0.031100 (psi)

Tsat in = 0.164001 (deg F) Tsat out = 0.046112 (deg F)

Phi inner = 0.129898 (kBtu/hr-ft2) Phi outer = 0.905304 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1310	0.1520
1	TRF000002	0.0799	0.0923
2	TFM000001	0.0802	0.0910
3	TIN000001	0.1054	0.1206
4	TRV000001	0.1010	0.1137
5	TSR000001	1.8075	1.1990
6	TAO020136	6.0024	5.6397
7	TAO050136	0.4344	0.2032
8	TAO070136	0.5592	0.2551
9	TAO080136	0.3781	0.1462
10	TAO090136	0.1959	0.0727
11	TAO100136	0.5250	0.1964
12	TAO105136	0.3699	0.1360
13	TAO110136	0.4306	0.1534
14	TAO115136	0.4199	0.1512
15	TAO120136	0.3871	0.1323
16	TAO125136	0.6454	0.2666
17	TAO130136	0.0092	0.0031
18	TAO120048	5.0000	4.4191
19	TAO130048	0.2170	0.0733
20	TAO120224	0.1942	0.0676
21	TAO130224	0.1731	0.0637
22	TAO120312	0.2502	0.0890
23	TAO130312	0.3679	0.1334
24	TRT020000	0.0923	0.0436
25	TRT070000	0.6241	0.2483
26	TRT100000	0.2924	0.1041
27	TRT120000	0.1183	0.0434
28	TRT125000	0.3443	0.1234
29	TRT130000	1.0936	0.3937
30	EMPTY	0.0551	0.1384
31	TAF050136	0.3239	0.2180
32	TAF070136	0.2082	0.1198
33	TAF080136	0.2998	0.1152
34	TAF090136	2.9122	3.0100
35	TAF100136	0.4962	0.2379
36	TAF105136	0.4147	0.1945
37	TAF110136	0.2512	0.1141
38	TAF115136	0.5341	0.2356
39	TAF120136	0.3206	0.1188
40	TAF125136	1.8966	0.7322
41	TAF130136	0.4657	0.1738
42	TAF120048	2.1462	0.8661
43	TAF130048	0.4029	0.1491
44	TAF120224	0.6582	0.2863
45	TAF130224	0.6794	0.2802

#	Name	Abs Diff	%Diff
46	EMPTY	0.0459	0.1204
47	EMPTY	0.0459	0.1146
48	TAI130048	0.1252	0.0445
49	TAI130136	0.0152	0.0053
50	TAI130224	0.0961	0.0347
51	TAI130312	0.1438	0.0519
52	TRR130000	1.0752	0.7552
53	TSI000001	0.0079	0.0119
54	TSI000002	0.7443	0.9691
55	TSO000001	0.1034	0.1582
56	TSO000002	0.0340	0.0397
57	TAF020136	0.1869	0.1719
58	TAF120312	0.9331	0.4093
59	TAF130312	0.5356	0.2179
60	EMPTY	0.0109	0.2655
61	EMPTY	0.0116	0.2839
62	EMPTY	0.0117	0.2876
63	EMPTY	0.0124	0.3055
64	EMPTY	0.0054	0.2755
65	EMPTY	0.0053	0.2684
66	EMPTY	0.0066	0.3329
67	EMPTY	0.0042	0.2104
68	EMPTY	0.0051	0.2548
69	EMPTY	0.0058	0.2883
70	EMPTY	0.0048	0.2376
71	EMPTY	0.0042	0.2063
72	EMPTY	0.0066	0.3233
73	EMPTY	0.0044	0.2141
74	EMPTY	0.0053	0.2568
75	EMPTY	0.0039	0.1879
76	EMPTY	0.0060	0.2884
77	EMPTY	0.0044	0.2100
78	EMPTY	0.0048	0.2276
79	EMPTY	0.0056	0.2636
80	PAN020136	0.1541	1.7157
81	PAN050136	1.1261	4.3991
82	PAN070136	0.1572	0.8824
83	PAN080136	0.2411	4.0279
84	PAN090136	0.9888	10.4021
85	PAN100136	0.6378	300.9910
86	PAN105136	0.6409	18.3765
87	PAN110136	1.2390	31.4307
88	PAN115136	1.0788	121.6509
89	PAN120136	0.6134	28.0040
90	PAN125136	0.0839	18.2829
91	PAN130136	0.3052	8.3336
92	PAN120048	0.6286	12.7044
93	PAN130048	0.3051	5.6944
94	PAN120224	0.1831	6.8418
95	PAN130224	0.0626	2.7034
96	PAN120312	0.4425	21.4639
97	PAN130312	0.3067	19.6439
98	PAB000136	0.1108	0.2754
99	PAB100136	0.0320	0.0750
100	PAB125136	0.0330	0.0768

Test: Aug01_18

dif

Date: Wed Aug 1 18:51:04 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0293	0.0734
102	PRV000001	0.0732	0.3696
103	PSR000001	0.0147	0.0347
104	PFM000001	0.0110	0.1758
105	PAN000136	0.8606	1.1428
106	PFM000002	0.0020	0.0318
107	EMPTY	0.0003	6.5217
108	EMPTY	0.1171	1.1911
109	EMPTY	0.0002	4.6512
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0586	0.0403
113	VPW000002	0.0156	0.0092
114	VPW000003	0.0273	0.0131
115	VPW000004	0.0118	0.0079
116	VPW000005	0.0157	0.0079
117	VPW000006	0.0079	0.0038
118	IPW000001	0.8586	0.1098
119	IPW000002	11.6681	0.6386
120	IPW000003	2.8862	0.1559
121	IPW000004	2.7050	0.5017
122	IPW000005	1.6893	0.4738
123	IPW000006	1.6895	0.4588
124	EMPTY	0.0004	2.1858
125	EMPTY	0.0006	4.8781
126	EMPTY	0.0006	4.3796
127	EMPTY	0.0007	4.4025
128	IHT000001	0.0703	0.0386
129	IHT000002	0.0391	0.0208
130	IHT000003	0.0821	0.0434
131	IHT000004	0.0899	0.0484
132	IHT000005	0.0977	0.0532
133	IHT000006	0.0586	0.0329
134	IHT000007	0.0313	0.0168
135	IHT000008	0.0156	0.0084
136	IHT000009	0.0274	0.0148
137	IHT000010	0.0976	0.0519
138	IHT000011	0.0625	0.0337
139	IHT000012	0.0430	0.0236
140	IHT000013	0.0039	0.0030
141	IHT000014	0.1054	0.0579
142	IHT000015	0.0313	0.0231
143	IHT000016	0.0157	0.0124
144	IHT000017	0.1993	0.1318
145	IHT000018	0.1211	0.0791
146	IHT000019	0.1094	0.0740
147	IHT000020	0.1093	0.0721
148	IHT000021	0.0312	2.1341
149	IHT000022	0.0235	0.0179
150	IHT000023	0.1094	0.0734
151	IHT000024	0.1094	0.0961
152	IHT000025	0.0664	0.0447
153	IHT000026	0.0937	0.0624
154	IHT000027	0.0118	0.0092
155	IHT000028	0.0313	0.0240

Test: Aug01_18 dif Date: Wed Aug 1 18:51:04 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0820	0.0548
157	IHT000030	0.0586	0.0385
158	IHT000031	0.0508	0.0338
159	IHT000032	0.0234	0.0154
160	IHT000033	0.0274	0.0180
161	IHT000034	0.0117	0.0088
162	IHT000035	0.0039	0.0022
163	IHT000036	0.0196	0.0148

Test: Aug01_19

sum1

Date: Wed Aug 1 19:06:33 1990

Page: 1

Velocity 1 = 5.9829 (ft/sec) (+/- 4.9317 %)
Velocity 2 = 5.9817 (ft/sec) (+/- 2.3636 %)
Pressure drop = -2.0466 (psi)
Tsat in = 267.9676 (deg F) Tsat out = 271.2323 (deg F)
Phi inner = 201.6345 (kBtu/hr-ft2) (+/- 1.2813 %)
Phi outer = 200.8106 (kBtu/hr-ft2) (+/- 1.3395 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.2206	86.8545	86.5080	1.6400e-01	1.9002e+00
1	TRF000002	86.6347	87.0549	86.8364	1.5861e-01	1.9002e+00
2	TFM000001	88.0293	88.7644	88.3741	1.9549e-01	1.9002e+00
3	TIN000001	87.3746	88.0057	87.6569	1.3005e-01	1.9002e+00
4	TRV000001	88.7239	89.5628	89.1351	1.9586e-01	1.9002e+00
5	TSR000001	147.2273	151.9112	149.5800	1.4970e+00	1.9043e+00
6	TAO020136	96.3052	100.0615	98.7020	8.2156e-01	1.9006e+00
7	TAO050136	220.4844	223.6993	222.0124	6.2091e-01	1.9155e+00
8	TAO070136	226.3702	230.2739	228.3939	1.0152e+00	1.9168e+00
9	TAO080136	270.2808	271.4744	270.7952	2.8976e-01	1.9270e+00
10	TAO090136	283.6501	284.8397	284.1699	3.3551e-01	1.9307e+00
11	TAO100136	279.1597	282.1856	280.4586	7.0276e-01	1.9296e+00
12	TAO105136	290.6428	293.3853	292.1171	6.4263e-01	1.9330e+00
13	TAO110136	292.8171	295.8874	294.3198	7.5126e-01	1.9336e+00
14	TAO115136	292.3934	296.2240	294.5576	7.8374e-01	1.9337e+00
15	TAO120136	295.8593	296.6797	296.3735	2.0058e-01	1.9342e+00
16	TAO125136	238.5393	240.2297	239.2151	3.7563e-01	1.9192e+00
17	TAO130136	289.6792	291.4798	290.8413	3.7249e-01	1.9326e+00
18	TAO120048	122.8756	123.9989	123.3942	3.0009e-01	1.9019e+00
19	TAO130048	291.4615	293.2799	292.3459	4.5324e-01	1.9330e+00
20	TAO120224	288.9323	291.6708	290.4513	6.9232e-01	1.9325e+00
21	TAO130224	277.1253	281.2228	278.3436	7.9235e-01	1.9290e+00
22	TAO120312	279.2151	281.7900	280.4334	5.7340e-01	1.9296e+00
23	TAO130312	278.7769	280.8848	279.8186	4.3338e-01	1.9294e+00
24	TRT020000	218.1920	220.1039	219.3277	3.6885e-01	1.9150e+00
25	TRT070000	261.8935	263.5756	262.7801	4.2075e-01	1.9249e+00
26	TRT100000	273.2850	276.2245	274.6078	6.1693e-01	1.9280e+00
27	TRT120000	274.8179	280.1465	276.7782	1.3375e+00	1.9286e+00
28	TRT125000	287.8789	292.4166	290.4606	9.5537e-01	1.9325e+00
29	TRT130000	290.5552	292.9233	292.1185	5.3918e-01	1.9330e+00
30	EMPTY	39.3761	40.2940	39.9086	2.2446e-01	1.9011e+00
31	TAF050136	152.2798	156.1539	154.1125	9.4824e-01	1.9048e+00
32	TAF070136	180.4056	183.3233	181.5231	7.3669e-01	1.9084e+00
33	TAF080136	265.7428	268.0392	266.8307	4.6783e-01	1.9259e+00
34	TAF090136	102.5478	103.6868	103.1484	2.3028e-01	1.9007e+00
35	TAF100136	218.2525	222.0701	219.7956	7.0179e-01	1.9151e+00
36	TAF105136	230.1128	234.4246	231.9179	9.0187e-01	1.9176e+00
37	TAF110136	247.5061	272.2218	260.8977	7.6861e+00	1.9244e+00
38	TAF115136	265.4121	272.2350	270.5070	1.5949e+00	1.9269e+00
39	TAF120136	274.4514	275.4615	274.9911	2.4506e-01	1.9281e+00
40	TAF125136	270.0585	271.9822	271.1360	3.7966e-01	1.9271e+00
41	TAF130136	269.9128	271.0205	270.3233	2.1190e-01	1.9268e+00
42	TAF120048	268.3325	271.5863	270.1965	8.1638e-01	1.9268e+00
43	TAF130048	269.1993	271.3211	270.6462	3.7867e-01	1.9269e+00
44	TAF120224	243.9290	248.8871	246.7257	1.2124e+00	1.9209e+00
45	TAF130224	251.7229	261.3649	255.3077	1.9644e+00	1.9230e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1445	2.2159e-01	1.9010e+00
47	EMPTY	39.6057	40.5234	40.1839	2.3285e-01	1.9011e+00
48	TAI130048	279.9568	282.0688	280.9379	4.7568e-01	1.9297e+00
49	TAI130136	286.1808	287.4588	286.7399	2.6773e-01	1.9314e+00
50	TAI130224	277.2096	279.2375	278.2352	4.9671e-01	1.9290e+00
51	TAI130312	276.5469	277.2848	276.9786	2.1502e-01	1.9286e+00
52	TRR130000	143.0590	144.4628	143.5575	2.9404e-01	1.9036e+00
53	TSI000001	65.6862	66.4343	66.1430	1.9902e-01	1.9000e+00
54	TSI000002	77.5691	79.4688	78.4216	4.9682e-01	1.9000e+00
55	TSO000001	64.8009	65.6609	65.2783	2.4568e-01	1.9000e+00
56	TSO000002	86.0237	86.9709	86.5707	2.0717e-01	1.9002e+00
57	TAF020136	109.8273	114.1824	111.4086	8.0901e-01	1.9012e+00
58	TAF120312	235.3019	239.5435	237.3048	1.2038e+00	1.9188e+00
59	TAF130312	251.3634	258.3428	253.9688	1.2760e+00	1.9227e+00
60	EMPTY	4.2773	4.3506	4.3077	1.4407e-02	0.0000e+00
61	EMPTY	4.2676	4.3115	4.2862	1.0610e-02	0.0000e+00
62	EMPTY	4.2480	4.2822	4.2653	8.7240e-03	0.0000e+00
63	EMPTY	4.2432	4.2725	4.2560	6.8267e-03	0.0000e+00
64	EMPTY	2.0410	2.0557	2.0474	3.8523e-03	0.0000e+00
65	EMPTY	2.0557	2.0703	2.0613	3.7382e-03	0.0000e+00
66	EMPTY	2.0654	2.0703	2.0681	2.4583e-03	0.0000e+00
67	EMPTY	2.0752	2.0850	2.0797	3.5348e-03	0.0000e+00
68	EMPTY	2.0801	2.0898	2.0847	2.8608e-03	0.0000e+00
69	EMPTY	2.0898	2.0996	2.0952	3.5908e-03	0.0000e+00
70	EMPTY	2.0996	2.1094	2.1026	2.5894e-03	0.0000e+00
71	EMPTY	2.1094	2.1240	2.1171	3.1335e-03	0.0000e+00
72	EMPTY	2.1191	2.1289	2.1229	3.0501e-03	0.0000e+00
73	EMPTY	2.1338	2.1387	2.1360	2.4583e-03	0.0000e+00
74	EMPTY	2.1387	2.1484	2.1438	3.1828e-03	0.0000e+00
75	EMPTY	2.1484	2.1582	2.1550	2.5362e-03	0.0000e+00
76	EMPTY	2.1582	2.1680	2.1610	2.6267e-03	0.0000e+00
77	EMPTY	2.1680	2.1777	2.1736	3.0180e-03	0.0000e+00
78	EMPTY	2.1826	2.1924	2.1883	2.2839e-03	0.0000e+00
79	EMPTY	2.2021	2.2070	2.2042	2.4344e-03	0.0000e+00
80	PAN020136	-19.9023	2.9859	-11.7328	6.4475e+00	8.7049e-01
81	PAN050136	-37.5583	-12.9916	-25.2719	6.5426e+00	1.6812e+00
82	PAN070136	-25.7899	-5.7246	-15.6642	4.9162e+00	8.7088e-01
83	PAN080136	-13.0873	2.4004	-5.8439	3.1437e+00	8.7012e-01
84	PAN090136	-8.3217	-1.3026	-4.5589	1.5387e+00	8.7007e-01
85	PAN100136	-10.9393	-2.0892	-6.0046	1.7719e+00	8.7013e-01
86	PAN105136	-4.5725	-0.9867	-3.2663	8.3784e-01	8.7004e-01
87	PAN110136	-1.7158	0.2679	-0.6477	5.1446e-01	8.7000e-01
88	PAN115136	1.4768	3.3842	2.1528	4.2549e-01	8.7002e-01
89	PAN120136	1.7570	4.6562	2.9213	7.1799e-01	8.7003e-01
90	PAN125136	4.0355	6.5532	5.1708	5.8484e-01	8.7010e-01
91	PAN130136	7.0345	9.8574	8.2827	5.7109e-01	8.7025e-01
92	PAN120048	4.4516	8.3425	6.0034	9.0700e-01	8.7013e-01
93	PAN130048	11.8551	17.1956	13.6937	9.6913e-01	8.7067e-01
94	PAN120224	1.3354	5.6078	3.0535	9.6938e-01	8.7003e-01
95	PAN130224	10.9704	14.8614	12.2048	9.1106e-01	8.7053e-01
96	PAN120312	0.3450	4.7743	2.2200	9.2151e-01	8.7002e-01
97	PAN130312	9.0732	13.3457	10.4786	8.1926e-01	8.7039e-01
98	PAB000136	40.0229	40.8468	40.4037	2.5587e-01	5.8873e-01
99	PAB100136	42.6603	43.2554	42.9267	1.2118e-01	5.8984e-01
100	PAB125136	42.4596	42.8716	42.6674	9.2116e-02	5.8973e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.5255	40.8683	40.2213	4.4545e-01	7.5671e-01
102	PRV0000001	19.6068	19.7289	19.6801	6.0409e-02	7.5161e-01
103	PSR0000001	41.4597	41.5818	41.5354	5.9853e-02	7.5715e-01
104	PFM0000001	5.2766	5.5512	5.3882	8.3316e-02	5.0018e-01
105	PAN000136	-71.4368	-43.9710	-56.6602	7.8130e+00	4.9220e+00
106	PFM0000002	5.3034	5.4880	5.3860	4.3525e-02	2.0045e-01
107	EMPTY	-0.0049	0.0049	0.0038	2.6635e-03	0.0000e+00
108	EMPTY	-10.0000	-8.9209	-9.9378	2.1209e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0029	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	145.0458	145.4365	145.3037	1.0763e-01	1.1900e+00
113	VPW0000002	169.4674	169.8580	169.6665	1.0799e-01	1.3009e+00
114	VPW0000003	209.0370	209.6229	209.2909	1.2633e-01	1.4943e+00
115	VPW0000004	148.9295	149.5155	149.2460	1.4167e-01	1.2075e+00
116	VPW0000005	198.7267	199.1174	198.9532	1.3300e-01	1.4426e+00
117	VPW0000006	210.4605	210.8511	210.5973	1.1334e-01	1.5009e+00
118	IPW0000001	769.2609	775.1180	772.4236	1.2404e+00	1.0141e+01
119	IPW0000002	1816.1064	1821.9602	1819.4233	1.5394e+00	1.6499e+01
120	IPW0000003	1863.0374	1866.9374	1865.0652	1.1115e+00	1.6814e+01
121	IPW0000004	533.3909	535.3440	534.2891	3.7382e-01	4.6707e+00
122	IPW0000005	354.8605	356.3252	355.4464	3.1192e-01	3.4475e+00
123	IPW0000006	369.2627	370.7276	369.8390	3.2253e-01	3.5407e+00
124	EMPTY	-0.0293	-0.0098	-0.0186	4.5206e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0131	3.1874e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0148	3.1133e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT0000001	181.0434	183.3872	182.1957	5.5699e-01	4.4866e+00
129	IHT0000002	186.4859	188.6343	187.5250	5.2562e-01	4.5085e+00
130	IHT0000003	187.9995	190.3433	189.1519	5.2977e-01	4.5153e+00
131	IHT0000004	184.5628	186.9066	185.7504	5.6612e-01	4.5011e+00
132	IHT0000005	182.4106	184.9497	183.6723	5.8422e-01	4.4926e+00
133	IHT0000006	176.8930	179.4321	177.9594	5.9609e-01	4.4696e+00
134	IHT0000007	185.2915	187.8306	186.5375	5.8910e-01	4.5044e+00
135	IHT0000008	183.4360	185.5844	184.5180	5.3990e-01	4.4961e+00
136	IHT0000009	183.7628	185.9112	185.0010	5.7806e-01	4.4981e+00
137	IHT0000010	186.3807	189.3104	187.9433	5.9843e-01	4.5102e+00
138	IHT0000011	183.8755	186.6098	185.2387	5.3741e-01	4.4990e+00
139	IHT0000012	180.6941	183.2332	182.0380	5.0477e-01	4.4860e+00
140	IHT0000013	129.8265	132.3655	131.0960	5.0417e-01	4.3045e+00
141	IHT0000014	180.2734	183.3984	181.8672	5.2846e-01	4.4853e+00
142	IHT0000015	134.1308	137.0605	135.5723	5.2776e-01	4.3183e+00
143	IHT0000016	124.8648	127.5992	126.2905	5.3123e-01	4.2901e+00
144	IHT0000017	150.0376	152.1860	151.0571	5.7897e-01	4.3694e+00
145	IHT0000018	151.5850	154.3194	152.9912	6.5673e-01	4.3761e+00
146	IHT0000019	146.3304	148.6741	147.7015	5.0299e-01	4.3579e+00
147	IHT0000020	149.9436	152.0921	151.2562	5.0384e-01	4.3701e+00
148	IHT0000021	-2.8057	-0.4620	-1.6221	6.1815e-01	4.1000e+00
149	IHT0000022	130.0819	132.0350	130.9608	4.8688e-01	4.3041e+00
150	IHT0000023	147.8215	149.9700	148.8175	5.0417e-01	4.3617e+00
151	IHT0000024	112.6089	114.5621	113.5855	4.7515e-01	4.2544e+00
152	IHT0000025	147.4685	149.4216	148.4254	4.9166e-01	4.3604e+00
153	IHT0000026	148.8544	150.8075	149.8623	4.4879e-01	4.3653e+00
154	IHT0000027	126.9193	129.0678	128.0249	5.1389e-01	4.2952e+00
155	IHT0000028	128.8537	131.9787	130.2911	7.1219e-01	4.3020e+00

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

9 of 11

Test: Aug01_19 sum1 Date: Wed Aug 1 19:06:33 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	147.9642	151.4799	149.4799	7.5856e-01	4.3640e+00
157	IHT000030	150.5709	154.4772	152.2115	7.9801e-01	4.3734e+00
158	IHT000031	148.2910	152.1973	149.9941	7.6924e-01	4.3658e+00
159	IHT000032	150.0977	154.1992	151.8125	7.9045e-01	4.3720e+00
160	IHT000033	150.0976	154.1992	151.7812	7.8412e-01	4.3719e+00
161	IHT000034	132.3843	135.5093	133.5913	6.4318e-01	4.3122e+00
162	IHT000035	175.0676	177.6067	176.1300	5.7610e-01	4.4623e+00
163	IHT000036	131.0622	133.6013	131.9919	6.0433e-01	4.3072e+00

Velocity 1 = 5.9528 (ft/sec) (+/- 4.9767 %)
Velocity 2 = 5.9343 (ft/sec) (+/- 2.3829 %)
Pressure drop = -1.9579 (psi)
Tsats in = 267.9149 (deg F) Tsats out = 271.0204 (deg F)
Phi inner = 201.7706 (kBtu/hr-ft2) (+/- 1.2812 %)
Phi outer = 201.0199 (kBtu/hr-ft2) (+/- 1.3392 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.2206	87.0657	86.6305	1.8314e-01	1.9002e+00
1	TRF000002	86.6347	87.0549	86.9289	1.2734e-01	1.9002e+00
2	TFM000001	88.1342	88.8706	88.4312	1.6660e-01	1.9002e+00
3	TIN000001	87.2698	88.0065	87.6802	1.4460e-01	1.9002e+00
4	TRV000001	88.8294	89.7730	89.1505	2.1394e-01	1.9002e+00
5	TSR000001	150.2188	153.3040	152.0394	8.6083e-01	1.9045e+00
6	TAO020136	101.1028	102.7680	102.1123	4.1942e-01	1.9007e+00
7	TAO050136	221.0517	224.0766	222.2420	7.8592e-01	1.9156e+00
8	TAO070136	226.3702	231.4147	228.4947	9.8134e-01	1.9168e+00
9	TAO080136	270.1900	271.6600	270.9998	3.4697e-01	1.9270e+00
10	TAO090136	283.7423	284.9313	284.2344	2.7848e-01	1.9307e+00
11	TAO100136	278.7015	282.0942	280.4644	6.6863e-01	1.9296e+00
12	TAO105136	290.5515	292.8378	291.6729	5.7442e-01	1.9328e+00
13	TAO110136	292.9092	295.8874	294.3517	6.9427e-01	1.9336e+00
14	TAO115136	292.2108	295.5869	294.1437	7.9057e-01	1.9335e+00
15	TAO120136	295.7687	296.6802	296.1643	2.1599e-01	1.9342e+00
16	TAO125136	238.6326	240.1368	239.4767	3.2925e-01	1.9193e+00
17	TAO130136	288.7777	291.2147	290.3982	5.1137e-01	1.9324e+00
18	TAO120048	122.4675	123.4891	123.0089	2.5625e-01	1.9019e+00
19	TAO130048	291.0090	292.9171	291.7777	4.3834e-01	1.9329e+00
20	TAO120224	287.5608	291.0334	289.6828	7.8631e-01	1.9322e+00
21	TAO130224	276.3085	280.0439	278.2884	7.5280e-01	1.9290e+00
22	TAO120312	279.8595	281.8823	280.6047	4.9857e-01	1.9296e+00
23	TAO130312	279.0541	281.3439	280.1544	4.7347e-01	1.9295e+00
24	TRT020000	219.2436	220.7722	219.8075	3.6223e-01	1.9151e+00
25	TRT070000	262.4550	264.9750	263.6295	7.1072e-01	1.9251e+00
26	TRT100000	272.1825	275.3990	273.8235	8.7098e-01	1.9278e+00
27	TRT120000	277.4842	282.4390	279.9210	1.2000e+00	1.9295e+00
28	TRT125000	290.1483	294.5016	292.4261	9.2687e-01	1.9330e+00
29	TRT130000	291.3755	293.6519	292.4702	4.9289e-01	1.9331e+00
30	EMPTY	39.3761	40.2940	39.8489	2.0428e-01	1.9011e+00
31	TAF050136	153.0746	156.6515	154.3178	8.6357e-01	1.9048e+00
32	TAF070136	180.0194	184.0045	181.8291	1.0551e+00	1.9084e+00
33	TAF080136	265.8359	267.6745	266.7858	3.7609e-01	1.9259e+00
34	TAF090136	100.1613	101.2007	100.6292	2.5886e-01	1.9006e+00
35	TAF100136	218.4436	222.5470	220.2863	8.6866e-01	1.9152e+00
36	TAF105136	230.5855	235.1759	232.9293	9.9281e-01	1.9178e+00
37	TAF110136	243.4011	272.5894	262.0527	7.1736e+00	1.9247e+00
38	TAF115136	266.7050	272.3278	270.5316	1.3300e+00	1.9269e+00
39	TAF120136	274.4508	275.3708	274.9094	2.5737e-01	1.9281e+00
40	TAF125136	269.6919	271.8017	270.8898	4.7605e-01	1.9270e+00
41	TAF130136	269.2686	270.7449	270.0823	2.4581e-01	1.9268e+00
42	TAF120048	267.5871	271.8649	270.3356	9.3089e-01	1.9268e+00
43	TAF130048	269.3839	270.9522	270.4308	3.6241e-01	1.9269e+00
44	TAF120224	243.8351	250.0086	246.7015	1.4112e+00	1.9209e+00
45	TAF130224	252.7549	262.0177	255.7441	1.8188e+00	1.9231e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.2043	1.9842e-01	1.9010e+00
47	EMPTY	39.6057	40.7527	40.2206	2.7591e-01	1.9011e+00
48	TAI130048	279.5893	281.8862	280.5947	4.7271e-01	1.9296e+00
49	TAI130136	285.6331	287.1875	286.4904	3.3779e-01	1.9313e+00
50	TAI130224	278.1322	280.4350	279.0848	5.6076e-01	1.9292e+00
51	TAI130312	276.3631	277.4693	276.9696	2.5131e-01	1.9286e+00
52	TRR130000	142.6603	144.0639	143.3076	3.6668e-01	1.9036e+00
53	TSI000001	65.4729	66.5411	66.0519	2.0948e-01	1.9000e+00
54	TSI000002	75.6649	78.3091	76.8443	5.6030e-01	1.9000e+00
55	TSO000001	64.9085	65.7678	65.2931	2.0830e-01	1.9000e+00
56	TSO000002	86.1289	86.9714	86.5646	2.4240e-01	1.9002e+00
57	TAF020136	109.8273	113.9748	111.4683	8.3503e-01	1.9012e+00
58	TAF120312	236.1510	240.7665	238.0269	1.0561e+00	1.9189e+00
59	TAF130312	251.6451	258.7147	254.7491	1.4396e+00	1.9229e+00
60	EMPTY	4.2920	4.3506	4.3253	1.2544e-02	0.0000e+00
61	EMPTY	4.2871	4.3164	4.3044	6.7780e-03	0.0000e+00
62	EMPTY	4.2725	4.2920	4.2844	4.8488e-03	0.0000e+00
63	EMPTY	4.2676	4.2822	4.2757	4.3684e-03	0.0000e+00
64	EMPTY	2.0508	2.0605	2.0563	1.8821e-03	0.0000e+00
65	EMPTY	2.0654	2.0752	2.0703	9.8648e-04	0.0000e+00
66	EMPTY	2.0752	2.0850	2.0783	2.5648e-03	0.0000e+00
67	EMPTY	2.0898	2.0898	2.0898	0.0000e+00	0.0000e+00
68	EMPTY	2.0947	2.0947	2.0947	0.0000e+00	0.0000e+00
69	EMPTY	2.0996	2.1045	2.1044	6.9053e-04	0.0000e+00
70	EMPTY	2.1094	2.1143	2.1104	1.9730e-03	0.0000e+00
71	EMPTY	2.1240	2.1289	2.1250	1.9730e-03	0.0000e+00
72	EMPTY	2.1289	2.1338	2.1317	2.4344e-03	0.0000e+00
73	EMPTY	2.1387	2.1484	2.1435	1.8429e-03	0.0000e+00
74	EMPTY	2.1484	2.1533	2.1515	2.3941e-03	0.0000e+00
75	EMPTY	2.1582	2.1631	2.1614	2.3365e-03	0.0000e+00
76	EMPTY	2.1631	2.1729	2.1675	2.0337e-03	0.0000e+00
77	EMPTY	2.1729	2.1826	2.1797	2.6100e-03	0.0000e+00
78	EMPTY	2.1924	2.1973	2.1934	1.9730e-03	0.0000e+00
79	EMPTY	2.2070	2.2119	2.2089	2.3941e-03	0.0000e+00
80	PAN020136	-19.9786	4.7406	-11.1087	6.4248e+00	8.7044e-01
81	PAN050136	-36.9479	-15.1279	-26.5506	5.7803e+00	1.6813e+00
82	PAN070136	-24.9507	-6.4876	-16.3279	4.2091e+00	8.7096e-01
83	PAN080136	-13.9265	3.4685	-4.8979	3.9346e+00	8.7009e-01
84	PAN090136	-7.1773	7.3949	-3.8539	3.0730e+00	8.7005e-01
85	PAN100136	-9.6423	-3.5387	-6.8759	1.2491e+00	8.7017e-01
86	PAN105136	-4.2673	0.1577	-2.8971	8.7274e-01	8.7003e-01
87	PAN110136	-1.5632	0.6493	-0.3471	4.6965e-01	8.7000e-01
88	PAN115136	1.7820	3.6894	2.4641	5.1524e-01	8.7002e-01
89	PAN120136	2.0622	5.1902	3.2493	8.1768e-01	8.7004e-01
90	PAN125136	4.0355	7.5450	5.4744	6.2269e-01	8.7011e-01
91	PAN130136	6.8819	9.7811	8.5894	6.1091e-01	8.7026e-01
92	PAN120048	4.6041	9.5633	7.0379	1.0954e+00	8.7018e-01
93	PAN130048	12.0839	15.6698	14.0096	9.0293e-01	8.7070e-01
94	PAN120224	2.1746	5.3790	3.5830	7.8295e-01	8.7005e-01
95	PAN130224	10.9704	14.7851	12.6855	8.7033e-01	8.7058e-01
96	PAN120312	0.5782	5.2321	1.9896	8.6169e-01	8.7001e-01
97	PAN130312	9.7599	12.5828	11.2568	6.0936e-01	8.7046e-01
98	PAB000136	39.8398	40.9384	40.3680	2.8717e-01	5.8871e-01
99	PAB100136	42.6145	43.0265	42.8178	1.1142e-01	5.8980e-01
100	PAB125136	42.3680	42.7342	42.5173	9.8662e-02	5.8966e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2813	40.7462	40.1236	4.3299e-01	7.5668e-01
102	PRV000001	19.7289	19.8509	19.7411	3.6993e-02	7.5162e-01
103	PSR000001	41.0935	41.4597	41.3303	5.7362e-02	7.5708e-01
104	PFM000001	5.1850	5.4597	5.3333	8.4539e-02	5.0018e-01
105	PAN000136	-67.3170	-40.3089	-54.2066	8.0048e+00	4.9219e+00
106	PFM000002	5.2195	5.3537	5.2997	3.1491e-02	2.0044e-01
107	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-8.9453	-9.9467	2.0884e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	145.0458	145.4365	145.2451	1.0799e-01	1.1898e+00
113	VPW000002	169.6627	170.0533	169.7681	1.1975e-01	1.3014e+00
114	VPW000003	209.0370	209.4276	209.2753	1.0654e-01	1.4942e+00
115	VPW000004	149.1248	149.5155	149.2499	1.0992e-01	1.2075e+00
116	VPW000005	198.7267	199.1174	198.8751	1.1545e-01	1.4422e+00
117	VPW000006	210.2652	210.8511	210.5426	1.3720e-01	1.5006e+00
118	IPW000001	769.2609	773.1656	771.9161	1.0255e+00	1.0139e+01
119	IPW000002	1820.0089	1825.8628	1822.0386	1.3633e+00	1.6517e+01
120	IPW000003	1863.0374	1868.8875	1866.8597	1.2433e+00	1.6826e+01
121	IPW000004	534.8557	535.8323	535.4903	3.3087e-01	4.6793e+00
122	IPW000005	354.3722	355.8369	355.1046	2.9999e-01	3.4453e+00
123	IPW000006	369.2627	370.7276	369.7902	3.5348e-01	3.5404e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	3.5141e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.5034e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0140	3.5582e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.3778e-03	0.0000e+00
128	IHT000001	181.2387	183.7778	182.2700	5.4824e-01	4.4869e+00
129	IHT000002	186.4859	188.8296	187.5094	5.0772e-01	4.5084e+00
130	IHT000003	188.1949	190.1480	189.2457	4.7986e-01	4.5157e+00
131	IHT000004	184.9534	186.7113	185.8285	4.5547e-01	4.5015e+00
132	IHT000005	182.8012	184.7544	183.7700	4.7014e-01	4.4930e+00
133	IHT000006	176.8930	179.0415	178.0415	4.7946e-01	4.4699e+00
134	IHT000007	185.4868	187.6352	186.6860	4.7517e-01	4.5050e+00
135	IHT000008	183.2407	185.9751	184.6547	5.4184e-01	4.4966e+00
136	IHT000009	183.7628	186.8878	185.0713	6.1034e-01	4.4983e+00
137	IHT000010	186.7713	189.3104	188.0331	5.4421e-01	4.5106e+00
138	IHT000011	184.4614	186.8051	185.3871	4.8618e-01	4.4996e+00
139	IHT000012	180.8894	183.6238	182.1669	5.4277e-01	4.4865e+00
140	IHT000013	129.8265	132.5608	131.2210	5.1902e-01	4.3049e+00
141	IHT000014	180.8594	183.2031	181.9297	5.1181e-01	4.4855e+00
142	IHT000015	134.7168	136.8652	135.7207	5.4820e-01	4.3188e+00
143	IHT000016	125.2554	127.7945	126.2710	5.3087e-01	4.2900e+00
144	IHT000017	150.0376	152.5766	151.3618	5.7493e-01	4.3705e+00
145	IHT000018	151.9756	154.3194	153.0498	6.1542e-01	4.3763e+00
146	IHT000019	146.5257	149.2601	147.6820	5.9168e-01	4.3579e+00
147	IHT000020	150.1390	152.8733	151.3383	5.7725e-01	4.3704e+00
148	IHT000021	-3.1964	0.5146	-1.5596	7.3280e-01	4.1000e+00
149	IHT000022	129.6912	132.4256	130.8632	5.9320e-01	4.3038e+00
150	IHT000023	147.8215	150.3606	148.9894	5.7112e-01	4.3623e+00
151	IHT000024	112.6089	115.1480	113.6792	5.4852e-01	4.2547e+00
152	IHT000025	147.4685	150.2028	148.5934	5.9131e-01	4.3610e+00
153	IHT000026	149.0497	151.3935	149.9795	5.1984e-01	4.3657e+00
154	IHT000027	127.1146	129.4584	128.0249	5.6443e-01	4.2952e+00
155	IHT000028	128.8537	131.3927	130.2169	6.0681e-01	4.3018e+00

Test: Aug01_19 sum2 Date: Wed Aug 1 19:06:33 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	150.5033	149.5932	5.6992e-01	4.3644e+00
157	IHT000030	150.9615	153.6959	152.4576	6.3700e-01	4.3743e+00
158	IHT000031	149.0723	151.2207	150.2402	5.8858e-01	4.3666e+00
159	IHT000032	150.8789	153.4180	152.0430	6.1884e-01	4.3728e+00
160	IHT000033	150.6836	153.2226	151.9922	6.2670e-01	4.3727e+00
161	IHT000034	132.7749	134.5327	133.6968	4.6695e-01	4.3125e+00
162	IHT000035	175.0676	177.2160	176.1534	5.0864e-01	4.4624e+00
163	IHT000036	131.0622	132.8200	132.0739	4.6470e-01	4.3075e+00

Test: Aug01_19 dif Date: Wed Aug 1 19:06:33 1990 Page: 1

Velocity 1 = 0.030100 (ft/sec)
Velocity 2 = 0.047400 (ft/sec)
Pressure Drop = 0.088700 (psi)
Tsats in = 0.052704 (deg F) Tsats out = 0.211914 (deg F)
Phi inner = 0.136093 (kBtu/hr-ft2) Phi outer = 0.209305 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.1225	0.1416
1	TRF000002	0.0925	0.1065
2	TFM000001	0.0571	0.0646
3	TIN000001	0.0233	0.0266
4	TRV000001	0.0154	0.0173
5	TSR000001	2.4594	1.6442
6	TAO020136	3.4103	3.4551
7	TAO050136	0.2296	0.1034
8	TAO070136	0.1008	0.0441
9	TAO080136	0.2046	0.0756
10	TAO090136	0.0645	0.0227
11	TAO100136	0.0058	0.0021
12	TAO105136	0.4442	0.1521
13	TAO110136	0.0319	0.0108
14	TAO115136	0.4139	0.1405
15	TAO120136	0.2092	0.0706
16	TAO125136	0.2616	0.1094
17	TAO130136	0.4431	0.1524
18	TAO120048	0.3853	0.3123
19	TAO130048	0.5682	0.1944
20	TAO120224	0.7685	0.2646
21	TAO130224	0.0552	0.0198
22	TAO120312	0.1713	0.0611
23	TAO130312	0.3358	0.1200
24	TRT020000	0.4798	0.2188
25	TRT070000	0.8494	0.3232
26	TRT100000	0.7843	0.2856
27	TRT120000	3.1428	1.1355
28	TRT125000	1.9655	0.6767
29	TRT130000	0.3517	0.1204
30	EMPTY	0.0597	0.1496
31	TAF050136	0.2053	0.1332
32	TAF070136	0.3060	0.1686
33	TAF080136	0.0449	0.0168
34	TAF090136	2.5192	2.4423
35	TAF100136	0.4907	0.2233
36	TAF105136	1.0114	0.4361
37	TAF110136	1.1550	0.4427
38	TAF115136	0.0246	0.0091
39	TAF120136	0.0817	0.0297
40	TAF125136	0.2462	0.0908
41	TAF130136	0.2410	0.0892
42	TAF120048	0.1391	0.0515
43	TAF130048	0.2154	0.0796
44	TAF120224	0.0242	0.0098
45	TAF130224	0.4364	0.1709

#	Name	Abs Diff	%Diff
46	EMPTY	0.0598	0.1568
47	EMPTY	0.0367	0.0913
48	TAI130048	0.3432	0.1222
49	TAI130136	0.2495	0.0870
50	TAI130224	0.8496	0.3054
51	TAI130312	0.0090	0.0033
52	TRR130000	0.2499	0.1741
53	TSI000001	0.0911	0.1377
54	TSI000002	1.5773	2.0113
55	TSO000001	0.0148	0.0227
56	TSO000002	0.0061	0.0071
57	TAF020136	0.0597	0.0536
58	TAF120312	0.7221	0.3043
59	TAF130312	0.7803	0.3072
60	EMPTY	0.0176	0.4086
61	EMPTY	0.0182	0.4246
62	EMPTY	0.0191	0.4478
63	EMPTY	0.0197	0.4629
64	EMPTY	0.0089	0.4347
65	EMPTY	0.0090	0.4366
66	EMPTY	0.0102	0.4932
67	EMPTY	0.0101	0.4856
68	EMPTY	0.0100	0.4797
69	EMPTY	0.0092	0.4391
70	EMPTY	0.0078	0.3710
71	EMPTY	0.0079	0.3732
72	EMPTY	0.0088	0.4145
73	EMPTY	0.0075	0.3511
74	EMPTY	0.0077	0.3592
75	EMPTY	0.0064	0.2970
76	EMPTY	0.0065	0.3008
77	EMPTY	0.0061	0.2806
78	EMPTY	0.0051	0.2331
79	EMPTY	0.0047	0.2132
80	PAN020136	0.6241	5.3193
81	PAN050136	1.2787	5.0598
82	PAN070136	0.6637	4.2371
83	PAN080136	0.9460	16.1878
84	PAN090136	0.7050	15.4643
85	PAN100136	0.8713	14.5105
86	PAN105136	0.3692	11.3033
87	PAN110136	0.3006	46.4104
88	PAN115136	0.3113	14.4602
89	PAN120136	0.3280	11.2279
90	PAN125136	0.3036	5.8714
91	PAN130136	0.3067	3.7029
92	PAN120048	1.0345	17.2319
93	PAN130048	0.3159	2.3069
94	PAN120224	0.5295	17.3408
95	PAN130224	0.4807	3.9386
96	PAN120312	0.2304	10.3784
97	PAN130312	0.7782	7.4266
98	PAB000136	0.0357	0.0884
99	PAB100136	0.1089	0.2537
100	PAB125136	0.1501	0.3518

Test: Aug01_19

dif

Date: Wed Aug 1 19:06:33 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0977	0.2429
102	PRV000001	0.0610	0.3100
103	PSR000001	0.2051	0.4938
104	PFM000001	0.0549	1.0189
105	PAN000136	2.4536	4.3304
106	PFM000002	0.0863	1.6023
107	EMPTY	0.0009	23.6842
108	EMPTY	0.0089	0.0896
109	EMPTY	0.0010	34.4828
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0586	0.0403
113	VPW000002	0.1016	0.0599
114	VPW000003	0.0156	0.0075
115	VPW000004	0.0039	0.0026
116	VPW000005	0.0781	0.0393
117	VPW000006	0.0547	0.0260
118	IPW000001	0.5075	0.0657
119	IPW000002	2.6152	0.1437
120	IPW000003	1.7946	0.0962
121	IPW000004	1.2012	0.2248
122	IPW000005	0.3418	0.0962
123	IPW000006	0.0488	0.0132
124	EMPTY	0.0001	0.5376
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0008	5.4054
127	EMPTY	0.0004	2.4540
128	IHT000001	0.0743	0.0408
129	IHT000002	0.0156	0.0083
130	IHT000003	0.0938	0.0496
131	IHT000004	0.0781	0.0421
132	IHT000005	0.0977	0.0532
133	IHT000006	0.0821	0.0461
134	IHT000007	0.1485	0.0796
135	IHT000008	0.1367	0.0741
136	IHT000009	0.0703	0.0380
137	IHT000010	0.0898	0.0478
138	IHT000011	0.1484	0.0801
139	IHT000012	0.1289	0.0708
140	IHT000013	0.1250	0.0953
141	IHT000014	0.0625	0.0344
142	IHT000015	0.1484	0.1095
143	IHT000016	0.0195	0.0154
144	IHT000017	0.3047	0.2017
145	IHT000018	0.0586	0.0383
146	IHT000019	0.0195	0.0132
147	IHT000020	0.0821	0.0543
148	IHT000021	0.0625	3.8530
149	IHT000022	0.0976	0.0745
150	IHT000023	0.1719	0.1155
151	IHT000024	0.0937	0.0825
152	IHT000025	0.1680	0.1132
153	IHT000026	0.1172	0.0782
154	IHT000027	0.0000	0.0000
155	IHT000028	0.0742	0.0570

Test: Aug01_19 dif Date: Wed Aug 1 19:06:33 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.1133	0.0758
157	IHT000030	0.2461	0.1617
158	IHT000031	0.2461	0.1641
159	IHT000032	0.2305	0.1518
160	IHT000033	0.2110	0.1390
161	IHT000034	0.1055	0.0790
162	IHT000035	0.0234	0.0133
163	IHT000036	0.0820	0.0621

Velocity 1 = 25.9570 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4269 (ft/sec) (+/- 1.7032 %)
Pressure drop = 20.6544 (psi)
Tsat in = 279.2527 (deg F) Tsat out = 248.0816 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10047.0586 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6765.8530 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1850	1.9230e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9684	1.3459e-01	1.9000e+00
2	TFM000001	87.7874	88.5229	88.2018	2.0054e-01	1.9002e+00
3	TIN000001	86.9990	87.6312	87.3551	1.5023e-01	1.9002e+00
4	TRV000001	87.5752	88.3092	87.9583	2.0375e-01	1.9002e+00
5	TSR000001	88.0985	88.7288	88.3534	1.6027e-01	1.9002e+00
6	TAO020136	80.2648	81.2177	80.6358	2.0434e-01	1.9001e+00
7	TAO050136	87.4371	88.2760	87.8301	1.7708e-01	1.9002e+00
8	TAO070136	87.4575	88.1953	87.9022	1.9550e-01	1.9002e+00
9	TAO080136	87.2338	88.0731	87.6596	1.7407e-01	1.9002e+00
10	TAO090136	88.0158	88.7507	88.4208	1.7613e-01	1.9002e+00
11	TAO100136	87.4741	88.1054	87.7249	1.6160e-01	1.9002e+00
12	TAO105136	88.2964	89.3483	88.7825	2.6020e-01	1.9002e+00
13	TAO110136	87.7400	88.4745	88.1407	1.9702e-01	1.9002e+00
14	TAO115136	87.9081	88.8549	88.3269	2.1830e-01	1.9002e+00
15	TAO120136	87.6301	88.1567	87.8725	1.3660e-01	1.9002e+00
16	TAO125136	88.2663	88.8971	88.5798	1.6095e-01	1.9002e+00
17	TAO130136	87.4815	88.2150	87.7739	1.6146e-01	1.9002e+00
18	TAO120048	71.7958	72.5416	72.1476	1.7390e-01	1.9000e+00
19	TAO130048	87.3540	87.9849	87.6509	1.3560e-01	1.9002e+00
20	TAO120224	87.5697	88.3054	87.9835	1.7447e-01	1.9002e+00
21	TAO130224	87.5219	88.3593	88.0057	1.8668e-01	1.9002e+00
22	TAO120312	87.5520	88.2892	88.0132	1.7264e-01	1.9002e+00
23	TAO130312	87.5278	88.1588	87.8080	1.4819e-01	1.9002e+00
24	TRT020000	87.9318	89.0897	88.3930	2.2503e-01	1.9002e+00
25	TRT070000	87.9196	88.4474	88.1878	1.3840e-01	1.9002e+00
26	TRT100000	88.0795	89.0212	88.4716	2.0943e-01	1.9002e+00
27	TRT120000	87.8859	88.5164	88.2281	1.6142e-01	1.9002e+00
28	TRT125000	87.7649	88.6034	88.2076	1.9654e-01	1.9002e+00
29	TRT130000	87.6877	88.2142	87.9930	1.4607e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.6435e-01	1.9011e+00
31	TAF050136	87.9224	88.7618	88.3738	2.0892e-01	1.9002e+00
32	TAF070136	88.3312	89.1696	88.7321	2.1637e-01	1.9002e+00
33	TAF080136	87.8832	88.7204	88.2756	1.7677e-01	1.9002e+00
34	TAF090136	72.6689	73.5190	73.0661	2.5007e-01	1.9000e+00
35	TAF100136	87.7398	88.5821	88.1757	1.8418e-01	1.9002e+00
36	TAF105136	87.5334	88.6826	88.0707	2.4338e-01	1.9002e+00
37	TAF110136	87.6706	88.3011	87.9674	1.6789e-01	1.9002e+00
38	TAF115136	88.0605	88.8992	88.5285	2.0577e-01	1.9002e+00
39	TAF120136	88.1001	88.6265	88.3676	1.2801e-01	1.9002e+00
40	TAF125136	87.9722	89.0179	88.4428	2.6100e-01	1.9002e+00
41	TAF130136	87.8628	88.9114	88.2099	1.8389e-01	1.9002e+00
42	TAF120048	88.1365	89.1913	88.6025	2.3255e-01	1.9002e+00
43	TAF130048	87.9383	88.5693	88.2475	1.7421e-01	1.9002e+00
44	TAF120224	87.9288	88.7684	88.2632	1.9744e-01	1.9002e+00
45	TAF130224	87.3532	88.1959	87.7558	1.9359e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.7534e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1970	1.0671e-01	1.9010e+00
48	TAI130048	87.8282	89.2979	88.5274	3.2071e-01	1.9002e+00
49	TAI130136	87.4409	88.0717	87.7834	1.9390e-01	1.9002e+00
50	TAI130224	88.1777	89.4402	88.8027	2.9546e-01	1.9002e+00
51	TAI130312	87.6492	88.4910	88.0513	2.0454e-01	1.9002e+00
52	TRR130000	86.4004	87.5543	86.8480	2.5231e-01	1.9002e+00
53	TSI000001	81.3405	82.1849	81.7185	1.7721e-01	1.9001e+00
54	TSI000002	74.5224	75.7941	75.2115	3.0354e-01	1.9000e+00
55	TSO000001	72.4153	73.1616	72.7329	1.7441e-01	1.9000e+00
56	TSO000002	73.9287	74.6734	74.2247	1.9245e-01	1.9000e+00
57	TAF020136	87.2137	88.0585	87.5583	1.9984e-01	1.9002e+00
58	TAF120312	87.4843	88.5353	87.8819	2.9571e-01	1.9002e+00
59	TAF130312	87.1881	87.8194	87.5729	1.4196e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5137	1.9730e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5418	9.6655e-04	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5563	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3609	1.3381e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3812	1.3381e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3978	2.4583e-03	0.0000e+00
67	EMPTY	0.4102	0.4199	0.4159	2.1364e-03	0.0000e+00
68	EMPTY	0.4248	0.4346	0.4297	9.8648e-04	0.0000e+00
69	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4643	1.3381e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5378	1.7115e-03	0.0000e+00
75	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5909	6.9053e-04	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6150	9.6655e-04	0.0000e+00
79	EMPTY	0.6299	0.6396	0.6349	1.2041e-03	0.0000e+00
80	PAN020136	72.2740	75.7835	73.7709	7.7940e-01	8.8933e-01
81	PAN050136	133.1056	134.4789	133.6458	3.6762e-01	1.7129e+00
82	PAN070136	90.8723	91.8641	91.3132	2.4141e-01	8.9945e-01
83	PAN080136	45.2014	46.1932	45.5736	1.7618e-01	8.7743e-01
84	PAN090136	47.5885	48.2752	47.9273	1.8183e-01	8.7821e-01
85	PAN100136	34.6068	35.1409	34.8647	1.3863e-01	8.7436e-01
86	PAN105136	21.4908	22.1774	21.7623	1.3800e-01	8.7170e-01
87	PAN110136	23.0724	23.8354	23.3471	1.8172e-01	8.7196e-01
88	PAN115136	23.5976	24.1317	23.8433	1.2262e-01	8.7204e-01
89	PAN120136	24.0364	24.4942	24.2042	1.0107e-01	8.7210e-01
90	PAN125136	26.2079	26.5893	26.4062	8.5820e-02	8.7250e-01
91	PAN130136	21.6286	22.0101	21.7675	8.5390e-02	8.7170e-01
92	PAN120048	41.0756	41.7623	41.3625	1.7612e-01	8.7612e-01
93	PAN130048	49.2127	50.2808	49.7086	2.2979e-01	8.7883e-01
94	PAN120224	39.2593	39.9460	39.5263	1.3459e-01	8.7559e-01
95	PAN130224	45.4699	46.2329	45.8560	1.5674e-01	8.7752e-01
96	PAN120312	44.8596	45.5462	45.2166	1.5524e-01	8.7731e-01
97	PAN130312	48.9002	49.5869	49.3428	1.5567e-01	8.7870e-01
98	PAB000136	48.4785	48.9363	48.6781	9.9073e-02	5.9263e-01
99	PAB100136	33.1443	33.3274	33.2130	4.2632e-02	5.8591e-01
100	PAB125136	28.7313	28.8687	28.7982	3.7235e-02	5.8445e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	48.1141	48.9686	48.4486	1.8258e-01	7.5972e-01
102	PRV000001	24.2235	24.4677	24.3969	6.5667e-02	7.5248e-01
103	PSR000001	25.3763	25.4983	25.4959	1.7263e-02	7.5270e-01
104	PFM000001	103.0584	105.0726	103.9025	4.9882e-01	5.6345e-01
105	PAN000136	567.9266	575.2508	571.8267	1.6420e+00	5.1235e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	1.1133	-3.4211	3.4061e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0070	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW0000001	-0.2554	0.1352	-0.0132	1.0106e-01	8.1000e-01
113	VPW0000002	-0.2329	0.1577	0.0210	9.8648e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	-0.0083	1.1161e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0057	1.0849e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	-0.0132	1.1027e-01	8.1000e-01
117	VPW0000006	-0.2366	0.1540	0.0251	1.1578e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.5422	1.1357e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	-0.1666	1.1178e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.4140	1.0782e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.0879	2.8659e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0184	3.1947e-01	2.0000e+00
123	IPW0000006	-0.5540	0.4226	0.0222	2.7356e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0200	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.6908e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.9742e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.2733e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0060	8.8233e-02	4.1000e+00
129	IHT0000002	-0.4019	0.1840	-0.0152	7.3716e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0002	7.3716e-02	4.1000e+00
131	IHT0000004	-0.2854	0.1052	-0.0354	1.0470e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0227	1.1327e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	0.0128	9.0412e-02	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0045	7.1136e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0236	7.9017e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	-0.0176	7.2330e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	-0.0065	6.8459e-02	4.1000e+00
139	IHT0000012	-0.0864	0.1089	-0.0200	9.3461e-02	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0171	1.0470e-01	4.1000e+00
141	IHT0000014	-0.0639	0.3268	0.0221	1.0559e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0036	6.2265e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0065	9.4702e-02	4.1000e+00
144	IHT0000017	-0.2629	0.3230	0.0183	1.8990e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	-0.0031	1.0507e-01	4.1000e+00
146	IHT0000019	-0.1765	0.0188	-0.1297	8.4262e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0198	1.0259e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0143	1.0440e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
151	IHT0000024	-0.1578	0.4282	0.0141	1.0907e-01	4.1000e+00
152	IHT0000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	-0.0084	7.5283e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0122	7.5283e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	0.0150	1.0440e-01	4.1000e+00

Test: Jul31_01

sum1

Date: Tue Jul 31 10:55:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0101	8.2393e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0388	9.9512e-02	4.1000e+00
158	IHT000031	-0.2442	0.1465	-0.0020	1.1545e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0057	9.5112e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0054	9.0756e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0086	8.8321e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	9.6735e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0233	9.6655e-02	4.1000e+00

Velocity 1 = 25.9525 (ft/sec) (+/- 1.6889 %)
Velocity 2 = 13.4269 (ft/sec) (+/- 1.7032 %)
Pressure drop = 20.6981 (psi)
Tsats in = 279.3017 (deg F) Tsats out = 248.0618 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5500.0547 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4325.7090 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1877	2.0290e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.0288	1.4363e-01	1.9000e+00
2	TFM000001	87.7874	88.8381	88.2488	2.4608e-01	1.9002e+00
3	TIN000001	86.9990	87.7362	87.3752	1.9105e-01	1.9002e+00
4	TRV000001	87.6787	88.5167	88.0601	2.0923e-01	1.9002e+00
5	TSR000001	87.9944	88.6248	88.3587	1.5771e-01	1.9002e+00
6	TAO020136	80.1587	81.1122	80.6843	2.4549e-01	1.9001e+00
7	TAO050136	87.4371	88.1727	87.8127	1.7269e-01	1.9002e+00
8	TAO070136	87.5625	88.3008	87.9241	2.2865e-01	1.9002e+00
9	TAO080136	87.3376	87.9681	87.6620	1.5893e-01	1.9002e+00
10	TAO090136	88.0153	88.8556	88.4184	2.2096e-01	1.9002e+00
11	TAO100136	87.3699	88.0007	87.7386	1.5351e-01	1.9002e+00
12	TAO105136	88.2966	89.2431	88.7838	2.1432e-01	1.9002e+00
13	TAO110136	87.7425	88.4745	88.1279	1.8305e-01	1.9002e+00
14	TAO115136	87.9083	88.8549	88.3869	2.2103e-01	1.9002e+00
15	TAO120136	87.4201	88.1567	87.8774	1.8540e-01	1.9002e+00
16	TAO125136	88.2663	89.0020	88.5691	1.8532e-01	1.9002e+00
17	TAO130136	87.2781	88.1100	87.7634	1.9613e-01	1.9002e+00
18	TAO120048	71.6894	72.5411	72.1829	1.7895e-01	1.9000e+00
19	TAO130048	87.3553	88.0898	87.6656	1.8069e-01	1.9002e+00
20	TAO120224	87.5697	88.3048	87.9556	1.7487e-01	1.9002e+00
21	TAO130224	87.6269	88.3587	87.9691	1.9090e-01	1.9002e+00
22	TAO120312	87.5525	88.3941	88.0118	2.1869e-01	1.9002e+00
23	TAO130312	87.5278	88.0544	87.8266	1.5247e-01	1.9002e+00
24	TRT020000	87.8257	88.7740	88.2712	2.4155e-01	1.9002e+00
25	TRT070000	87.8146	88.5523	88.1693	1.8472e-01	1.9002e+00
26	TRT100000	88.0789	88.9187	88.4690	1.9751e-01	1.9002e+00
27	TRT120000	87.8853	88.5164	88.2288	1.7666e-01	1.9002e+00
28	TRT125000	87.8699	88.6034	88.2338	1.7917e-01	1.9002e+00
29	TRT130000	87.6877	88.4231	88.0035	1.5630e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6291	1.8295e-01	1.9011e+00
31	TAF050136	88.0274	88.8662	88.4087	1.9815e-01	1.9002e+00
32	TAF070136	88.2275	89.2745	88.7149	2.4605e-01	1.9002e+00
33	TAF080136	87.9882	88.6178	88.2711	1.7811e-01	1.9002e+00
34	TAF090136	72.4557	73.6252	73.0699	2.9278e-01	1.9000e+00
35	TAF100136	87.8448	88.5815	88.1974	1.9043e-01	1.9002e+00
36	TAF105136	87.5334	88.5795	88.0755	2.6697e-01	1.9002e+00
37	TAF110136	87.6706	88.3011	87.9693	1.6660e-01	1.9002e+00
38	TAF115136	88.1649	89.0046	88.5488	2.0369e-01	1.9002e+00
39	TAF120136	87.9967	88.6265	88.3774	1.6297e-01	1.9002e+00
40	TAF125136	87.9722	88.9130	88.4165	2.5884e-01	1.9002e+00
41	TAF130136	87.7585	88.5985	88.1786	1.7559e-01	1.9002e+00
42	TAF120048	87.9252	89.2962	88.5903	2.5581e-01	1.9002e+00
43	TAF130048	87.8338	88.5693	88.2304	1.7463e-01	1.9002e+00
44	TAF120224	87.8243	88.6645	88.2787	2.1471e-01	1.9002e+00
45	TAF130224	87.3532	88.1959	87.7682	1.7917e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0959	2.1506e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2121	1.0481e-01	1.9010e+00
48	TAI130048	87.9332	89.0882	88.4539	2.8338e-01	1.9002e+00
49	TAI130136	87.2316	88.1753	87.7584	2.0710e-01	1.9002e+00
50	TAI130224	88.3876	89.3348	88.8197	2.7594e-01	1.9002e+00
51	TAI130312	87.6495	88.5960	88.0766	1.8143e-01	1.9002e+00
52	TRR130000	86.4004	87.6598	86.9833	2.4790e-01	1.9002e+00
53	TSI000001	81.3410	82.1849	81.7155	1.7260e-01	1.9001e+00
54	TSI000002	74.4175	75.4774	74.9840	2.3534e-01	1.9000e+00
55	TSO000001	72.4142	73.1616	72.7916	2.0671e-01	1.9000e+00
56	TSO000002	73.7163	74.6734	74.2914	2.1804e-01	1.9000e+00
57	TAF020136	87.1086	87.9527	87.5522	2.0882e-01	1.9002e+00
58	TAF120312	87.2744	88.4298	87.8750	2.5826e-01	1.9002e+00
59	TAF130312	87.1881	87.9240	87.5872	1.7431e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5129	9.7615e-04	0.0000e+00
61	EMPTY	0.5225	0.5371	0.5277	1.9523e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5409	2.0584e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5561	1.4934e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3603	1.9883e-03	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3808	6.9754e-04	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3974	2.4037e-03	0.0000e+00
67	EMPTY	0.4150	0.4199	0.4156	1.6172e-03	0.0000e+00
68	EMPTY	0.4297	0.4346	0.4300	1.1827e-03	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4493	6.9754e-04	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4642	1.1827e-03	0.0000e+00
71	EMPTY	0.4834	0.4932	0.4883	9.9670e-04	0.0000e+00
72	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5226	6.9754e-04	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5382	2.0584e-03	0.0000e+00
75	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
76	EMPTY	0.5713	0.5811	0.5716	1.5467e-03	0.0000e+00
77	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
78	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6351	1.1827e-03	0.0000e+00
80	PAN020136	72.5792	76.1650	74.1798	8.8035e-01	8.8955e-01
81	PAN050136	133.2582	134.6315	133.9745	3.5129e-01	1.7131e+00
82	PAN070136	90.8723	91.9404	91.4562	1.9916e-01	8.9954e-01
83	PAN080136	45.3539	45.9643	45.6186	1.5425e-01	8.7744e-01
84	PAN090136	47.6648	48.3515	48.0245	1.6481e-01	8.7825e-01
85	PAN100136	34.6831	35.2171	34.9447	1.3030e-01	8.7438e-01
86	PAN105136	21.4908	22.0248	21.7835	1.3785e-01	8.7170e-01
87	PAN110136	22.9961	23.6828	23.3994	1.7550e-01	8.7196e-01
88	PAN115136	23.5976	24.0554	23.8592	9.0808e-02	8.7204e-01
89	PAN120136	24.1127	24.4179	24.2513	8.3392e-02	8.7211e-01
90	PAN125136	26.2841	26.6656	26.4523	1.0560e-01	8.7251e-01
91	PAN130136	21.6286	22.0864	21.8092	9.5614e-02	8.7171e-01
92	PAN120048	40.9993	41.7623	41.3683	1.7712e-01	8.7613e-01
93	PAN130048	49.3653	50.2808	49.8028	1.9312e-01	8.7886e-01
94	PAN120224	39.3356	39.8697	39.6174	1.3505e-01	8.7562e-01
95	PAN130224	45.7751	46.2329	45.9604	1.2263e-01	8.7755e-01
96	PAN120312	44.9359	45.6225	45.2971	1.2534e-01	8.7734e-01
97	PAN130312	49.0528	49.6632	49.3783	1.4083e-01	8.7871e-01
98	PAB000136	48.5243	48.9363	48.7168	1.0106e-01	5.9265e-01
99	PAB100136	33.1443	33.3274	33.2144	4.6816e-02	5.8591e-01
100	PAB125136	28.7313	28.8687	28.7883	4.3357e-02	5.8445e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	48.1141	48.8465	48.4753	1.8133e-01	7.5973e-01
102	PRV000001	24.3456	24.4677	24.3904	5.9458e-02	7.5247e-01
103	PSR000001	25.4983	25.4983	25.4983	1.9271e-06	7.5270e-01
104	PFM000001	102.6007	104.7979	103.8656	4.5992e-01	5.6341e-01
105	PAN000136	569.7576	576.6241	573.0367	1.3423e+00	5.1243e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0098	0.0195	0.0101	1.5467e-03	0.0000e+00
108	EMPTY	-10.0000	1.6992	-3.3382	3.4068e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0071	2.4538e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1827e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0037	9.2540e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0421	9.6990e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0292	1.1906e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	0.0112	1.0836e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0103	1.1644e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0384	1.1906e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3119	1.1443e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.3622	1.2634e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.1362	1.1695e+00	8.1000e+00
121	IPW000004	-0.2441	0.2441	0.0747	2.3483e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0481	3.2992e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0638	3.5625e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0187	3.3574e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0126	3.1518e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0170	2.6600e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.3026e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0132	8.3122e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0126	7.5986e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0038	7.9736e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0135	1.1348e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0247	1.0625e-01	4.1000e+00
133	IHT000006	-0.3193	0.2667	0.0156	1.1960e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0089	7.5986e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0105	9.5812e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0082	7.3601e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0189	9.3931e-02	4.1000e+00
138	IHT000011	-0.0338	0.3568	0.0300	1.0076e-01	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0067	9.6990e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0302	1.0204e-01	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0198	1.0548e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0115	4.8662e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	-0.0001	9.2540e-02	4.1000e+00
144	IHT000017	-0.2629	0.3230	0.0121	1.8234e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0327	9.7656e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1048	1.0315e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0064	1.0548e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0478	9.7656e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0102	9.7656e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0126	7.5986e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0336	1.0156e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0130	8.6187e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0230	7.9328e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0246	9.4962e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0328	1.2308e-01	4.1000e+00

Test: Jul31_01

sum2

Date: Tue Jul 31 10:55:54 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0094	8.3122e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	-0.0044	9.2715e-02	4.1000e+00
158	IHT000031	-0.0488	0.1465	0.0109	9.0949e-02	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0092	8.6187e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	-0.0057	9.2189e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0011	7.1817e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0096	1.0299e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0142	9.6990e-02	4.1000e+00

Test: Jul31_01 dif Date: Tue Jul 31 10:55:54 1990 Page: 1

Velocity 1 = 0.004501 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.043699 (psi)

Tsat in = 0.049011 (deg F) Tsat out = 0.019806 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0027	0.0036
1	TRF000002	0.0604	0.0817
2	TFM000001	0.0470	0.0533
3	TIN000001	0.0201	0.0230
4	TRV000001	0.1018	0.1157
5	TSR000001	0.0053	0.0060
6	TAO020136	0.0485	0.0601
7	TAO050136	0.0174	0.0198
8	TAO070136	0.0219	0.0249
9	TAO080136	0.0024	0.0027
10	TAO090136	0.0024	0.0027
11	TAO100136	0.0137	0.0156
12	TAO105136	0.0013	0.0015
13	TAO110136	0.0128	0.0145
14	TAO115136	0.0600	0.0679
15	TAO120136	0.0049	0.0056
16	TAO125136	0.0107	0.0121
17	TAO130136	0.0105	0.0120
18	TAO120048	0.0353	0.0489
19	TAO130048	0.0147	0.0168
20	TAO120224	0.0279	0.0317
21	TAO130224	0.0366	0.0416
22	TAO120312	0.0014	0.0016
23	TAO130312	0.0186	0.0212
24	TRT020000	0.1218	0.1378
25	TRT070000	0.0185	0.0210
26	TRT100000	0.0026	0.0029
27	TRT120000	0.0007	0.0008
28	TRT125000	0.0262	0.0297
29	TRT130000	0.0105	0.0119
30	EMPTY	0.0189	0.0477
31	TAF050136	0.0349	0.0395
32	TAF070136	0.0172	0.0194
33	TAF080136	0.0045	0.0051
34	TAF090136	0.0038	0.0052
35	TAF100136	0.0217	0.0246
36	TAF105136	0.0048	0.0054
37	TAF110136	0.0019	0.0022
38	TAF115136	0.0203	0.0229
39	TAF120136	0.0098	0.0111
40	TAF125136	0.0263	0.0297
41	TAF130136	0.0313	0.0355
42	TAF120048	0.0122	0.0138
43	TAF130048	0.0171	0.0194
44	TAF120224	0.0155	0.0176
45	TAF130224	0.0124	0.0141

#	Name	Abs Diff	%Diff
46	EMPTY	0.0165	0.0433
47	EMPTY	0.0151	0.0385
48	TAI130048	0.0735	0.0830
49	TAI130136	0.0250	0.0285
50	TAI130224	0.0170	0.0192
51	TAI130312	0.0253	0.0287
52	TRR130000	0.1353	0.1558
53	TSI000001	0.0030	0.0037
54	TSI000002	0.2275	0.3025
55	TSO000001	0.0587	0.0807
56	TSO000002	0.0667	0.0899
57	TAF020136	0.0061	0.0070
58	TAF120312	0.0069	0.0078
59	TAF130312	0.0143	0.0163
60	EMPTY	0.0008	0.1557
61	EMPTY	0.0001	0.0189
62	EMPTY	0.0009	0.1661
63	EMPTY	0.0002	0.0359
64	EMPTY	0.0006	0.1663
65	EMPTY	0.0004	0.1049
66	EMPTY	0.0004	0.1006
67	EMPTY	0.0003	0.0721
68	EMPTY	0.0003	0.0698
69	EMPTY	0.0001	0.0223
70	EMPTY	0.0001	0.0215
71	EMPTY	0.0001	0.0205
72	EMPTY	0.0002	0.0398
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0004	0.0744
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0002	0.0350
77	EMPTY	0.0001	0.0169
78	EMPTY	0.0002	0.0325
79	EMPTY	0.0002	0.0315
80	PAN020136	0.4089	0.5543
81	PAN050136	0.3287	0.2460
82	PAN070136	0.1430	0.1566
83	PAN080136	0.0450	0.0987
84	PAN090136	0.0972	0.2028
85	PAN100136	0.0800	0.2295
86	PAN105136	0.0212	0.0974
87	PAN110136	0.0523	0.2240
88	PAN115136	0.0159	0.0667
89	PAN120136	0.0471	0.1946
90	PAN125136	0.0461	0.1746
91	PAN130136	0.0417	0.1916
92	PAN120048	0.0058	0.0140
93	PAN130048	0.0942	0.1895
94	PAN120224	0.0911	0.2305
95	PAN130224	0.1044	0.2277
96	PAN120312	0.0805	0.1780
97	PAN130312	0.0355	0.0719
98	PAB000136	0.0387	0.0795
99	PAB100136	0.0014	0.0042
100	PAB125136	0.0099	0.0344

Test: Jul31_01

dif

Date: Tue Jul 31 10:55:54 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0267	0.0551
102	PRV000001	0.0065	0.0266
103	PSR000001	0.0024	0.0094
104	PFM000001	0.0369	0.0355
105	PAN000136	1.2100	0.2116
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0003	3.0612
108	EMPTY	0.0829	2.4232
109	EMPTY	0.0001	1.4286
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	6.1224
112	VPW000001	0.0169	128.0303
113	VPW000002	0.0211	100.4762
114	VPW000003	0.0375	451.8073
115	VPW000004	0.0169	296.4912
116	VPW000005	0.0029	21.9697
117	VPW000006	0.0133	52.9881
118	IPW000001	0.2303	42.4751
119	IPW000002	0.5288	317.4070
120	IPW000003	0.2778	67.1015
121	IPW000004	0.0132	15.0171
122	IPW000005	0.0297	161.4130
123	IPW000006	0.0416	187.3874
124	EMPTY	0.0013	6.5000
125	EMPTY	0.0005	3.8168
126	EMPTY	0.0003	1.7964
127	EMPTY	0.0003	1.9608
128	IHT000001	0.0072	120.0000
129	IHT000002	0.0278	182.8947
130	IHT000003	0.0040	2000.0002
131	IHT000004	0.0489	138.1356
132	IHT000005	0.0020	8.8106
133	IHT000006	0.0028	21.8750
134	IHT000007	0.0044	97.7778
135	IHT000008	0.0068	39.3064
136	IHT000009	0.0154	65.2542
137	IHT000010	0.0365	207.3864
138	IHT000011	0.0365	561.5385
139	IHT000012	0.0133	66.5000
140	IHT000013	0.0131	76.6082
141	IHT000014	0.0023	10.4072
142	IHT000015	0.0079	219.4444
143	IHT000016	0.0066	101.5385
144	IHT000017	0.0062	33.8798
145	IHT000018	0.0296	954.8387
146	IHT000019	0.0249	19.1982
147	IHT000020	0.0134	67.6768
148	IHT000021	0.0335	234.2657
149	IHT000022	0.0017	14.2857
150	IHT000023	0.0005	4.1322
151	IHT000024	0.0195	138.2979
152	IHT000025	0.0007	5.1095
153	IHT000026	0.0314	373.8095
154	IHT000027	0.0124	101.6393
155	IHT000028	0.0478	318.6667

Test: Jul31_01 dif Date: Tue Jul 31 10:55:54 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0007	6.9307
157	IHT000030	0.0432	111.3402
158	IHT000031	0.0129	645.0000
159	IHT000032	0.0149	261.4035
160	IHT000033	0.0111	205.5555
161	IHT000034	0.0075	87.2093
162	IHT000035	0.0085	772.7273
163	IHT000036	0.0375	160.9442

Velocity 1 = 24.0128 (ft/sec) (+/- 1.6952 %)
 Velocity 2 = 13.4262 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 17.1511 (psi)
 Tsat in = 274.0817 (deg F) Tsat out = 246.8510 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5380.4985 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 10507.3291 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2106	1.7144e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9303	1.4745e-01	1.9000e+00
2	TFM000001	87.1589	88.1041	87.5996	2.1855e-01	1.9002e+00
3	TIN000001	86.2626	86.9999	86.7427	1.6775e-01	1.9002e+00
4	TRV000001	86.8427	87.7862	87.3667	2.1496e-01	1.9002e+00
5	TSR000001	87.4712	88.2069	87.8288	1.7223e-01	1.9002e+00
6	TAO020136	80.1592	81.2182	80.6676	2.5579e-01	1.9001e+00
7	TAO050136	86.9156	87.5459	87.2429	1.6521e-01	1.9002e+00
8	TAO070136	86.9293	87.7733	87.3434	2.0187e-01	1.9002e+00
9	TAO080136	86.7110	87.3418	87.0728	1.6040e-01	1.9002e+00
10	TAO090136	87.3870	88.2272	87.8321	2.1483e-01	1.9002e+00
11	TAO100136	86.8447	87.5813	87.1775	1.7944e-01	1.9002e+00
12	TAO105136	87.6654	88.7178	88.2085	2.3410e-01	1.9002e+00
13	TAO110136	87.2211	88.0585	87.5601	1.8123e-01	1.9002e+00
14	TAO115136	87.1721	88.2243	87.6940	2.3758e-01	1.9002e+00
15	TAO120136	87.0000	87.6312	87.2656	1.4147e-01	1.9002e+00
16	TAO125136	87.7426	88.2687	87.9408	1.4958e-01	1.9002e+00
17	TAO130136	86.7590	87.4893	87.1468	1.7175e-01	1.9002e+00
18	TAO120048	72.5398	73.0729	72.7789	1.4839e-01	1.9000e+00
19	TAO130048	86.7260	87.4622	87.0838	1.5600e-01	1.9002e+00
20	TAO120224	87.0443	87.7809	87.3519	1.5880e-01	1.9002e+00
21	TAO130224	87.0033	87.7355	87.3589	1.6252e-01	1.9002e+00
22	TAO120312	87.0269	87.8681	87.3760	1.8223e-01	1.9002e+00
23	TAO130312	87.0044	87.5306	87.1943	1.4569e-01	1.9002e+00
24	TRT020000	87.0890	88.2479	87.7843	2.1172e-01	1.9002e+00
25	TRT070000	87.2859	87.9193	87.5982	1.6359e-01	1.9002e+00
26	TRT100000	87.3471	88.5004	87.8334	2.2506e-01	1.9002e+00
27	TRT120000	87.2567	88.0972	87.6307	1.7144e-01	1.9002e+00
28	TRT125000	87.2439	87.9779	87.6173	2.1286e-01	1.9002e+00
29	TRT130000	87.0590	87.6903	87.4085	1.4937e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5781	2.1575e-01	1.9011e+00
31	TAF050136	87.5042	88.1348	87.7948	1.7297e-01	1.9002e+00
32	TAF070136	87.7051	88.5434	88.1084	2.1608e-01	1.9002e+00
33	TAF080136	87.3633	87.9932	87.6655	1.7283e-01	1.9002e+00
34	TAF090136	72.9870	74.1551	73.5646	3.0182e-01	1.9000e+00
35	TAF100136	87.2138	87.9509	87.5927	1.9262e-01	1.9002e+00
36	TAF105136	86.8033	87.8500	87.4648	2.3550e-01	1.9002e+00
37	TAF110136	87.0434	87.8832	87.3759	1.8168e-01	1.9002e+00
38	TAF115136	87.5368	88.3770	87.9322	1.9602e-01	1.9002e+00
39	TAF120136	87.3691	87.9998	87.7262	1.4571e-01	1.9002e+00
40	TAF125136	87.3481	88.1856	87.8204	2.3788e-01	1.9002e+00
41	TAF130136	87.2364	88.1800	87.6050	1.7903e-01	1.9002e+00
42	TAF120048	87.5026	88.4525	87.9837	2.1231e-01	1.9002e+00
43	TAF130048	87.2045	88.0448	87.5959	1.7886e-01	1.9002e+00
44	TAF120224	87.1962	88.0364	87.6496	2.0504e-01	1.9002e+00
45	TAF130224	86.8260	87.5635	87.1422	1.8924e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	2.1906e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	87.4078	88.3541	87.8412	3.0566e-01	1.9002e+00
49	TAI130136	86.7080	87.6520	87.1829	2.2460e-01	1.9002e+00
50	TAI130224	87.6518	88.8094	88.2579	2.9345e-01	1.9002e+00
51	TAI130312	87.0184	87.9656	87.4691	2.2401e-01	1.9002e+00
52	TRR130000	85.9818	86.9255	86.4060	2.5255e-01	1.9002e+00
53	TSI000001	81.2349	82.0794	81.7122	1.9092e-01	1.9001e+00
54	TSI000002	74.8406	76.1115	75.3701	2.7474e-01	1.9000e+00
55	TSO000001	73.2688	74.1213	73.7038	2.0522e-01	1.9000e+00
56	TSO000002	74.5657	75.4161	75.0590	1.6455e-01	1.9000e+00
57	TAF020136	86.5799	87.3193	86.9600	1.6934e-01	1.9002e+00
58	TAF120312	86.7494	87.9060	87.2586	2.9513e-01	1.9002e+00
59	TAF130312	86.6636	87.4002	87.0006	1.7644e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4997	2.3365e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5271	9.6655e-04	0.0000e+00
63	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3525	2.2058e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3758	9.6655e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
67	EMPTY	0.4053	0.4150	0.4102	9.8648e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4247	6.9053e-04	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4440	1.1714e-03	0.0000e+00
70	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
71	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4979	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5273	0.5177	1.8429e-03	0.0000e+00
74	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5662	9.6655e-04	0.0000e+00
77	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6090	2.2146e-03	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9053e-04	0.0000e+00
80	PAN020136	59.9907	63.8817	61.4250	9.2251e-01	8.8345e-01
81	PAN050136	110.5226	111.8959	111.2520	2.9130e-01	1.7029e+00
82	PAN070136	75.3083	76.2238	75.8042	2.1092e-01	8.9040e-01
83	PAN080136	37.5720	38.1060	37.8435	1.1653e-01	8.7513e-01
84	PAN090136	39.4251	40.1880	39.8203	1.4268e-01	8.7568e-01
85	PAN100136	28.4270	28.9610	28.6955	1.1662e-01	8.7295e-01
86	PAN105136	17.6761	18.1338	17.9583	1.0253e-01	8.7116e-01
87	PAN110136	19.1052	19.9444	19.4393	1.7702e-01	8.7136e-01
88	PAN115136	19.7829	20.1644	19.9920	9.6024e-02	8.7143e-01
89	PAN120136	19.5351	19.9928	19.7685	9.6763e-02	8.7140e-01
90	PAN125136	22.0117	22.3932	22.1567	1.0595e-01	8.7176e-01
91	PAN130136	17.8902	18.2717	18.0809	8.6165e-02	8.7117e-01
92	PAN120048	33.2936	34.2092	33.7636	1.8261e-01	8.7409e-01
93	PAN130048	40.3626	41.2781	40.8463	1.9655e-01	8.7597e-01
94	PAN120224	32.0114	32.5454	32.2616	1.3263e-01	8.7373e-01
95	PAN130224	38.0694	38.9086	38.5745	1.6593e-01	8.7533e-01
96	PAN120312	37.0013	37.5354	37.2973	1.2199e-01	8.7498e-01
97	PAN130312	40.7368	41.3471	41.0420	1.5491e-01	8.7603e-01
98	PAB000136	44.5418	45.0453	44.7304	1.0651e-01	5.9068e-01
99	PAB100136	31.7710	31.9541	31.8562	4.0323e-02	5.8544e-01
100	PAB125136	28.0905	28.2736	28.1902	4.1038e-02	5.8427e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	44.0858	44.9403	44.4862	1.7791e-01	7.5820e-01
102	PRV0000001	24.3456	24.7118	24.3847	7.1647e-02	7.5247e-01
103	PSR0000001	25.3763	25.4983	25.3811	2.4164e-02	7.5268e-01
104	PFM0000001	87.7691	90.1495	88.8769	6.0961e-01	5.4715e-01
105	PAN000136	470.8807	478.2049	474.8357	1.6039e+00	5.0612e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0146	0.0099	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	1.5771	-2.7104	3.0875e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	0.0040	2.1364e-03	0.0000e+00
112	VPW0000001	-0.0601	0.1352	-0.0093	8.6541e-02	8.1000e-01
113	VPW0000002	-0.0376	0.3530	0.0405	1.0440e-01	8.1000e-01
114	VPW0000003	-0.0864	0.1089	0.0152	9.8569e-02	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0291	9.3710e-02	8.1000e-01
116	VPW0000005	-0.1577	0.2329	-0.0093	1.1545e-01	8.1000e-01
117	VPW0000006	-0.2366	0.1540	0.0407	1.2534e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.5031	1.1156e+00	8.1000e+00
119	IPW0000002	-2.6642	1.2383	-0.0495	1.2221e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.0240	8.5317e-01	8.1000e+00
121	IPW0000004	-0.7324	0.2441	0.0293	2.8179e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1062	3.0177e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.1003	3.2133e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0189	3.5072e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.9611e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0099	9.4125e-02	4.1000e+00
129	IHT0000002	-0.0113	0.1840	0.0043	5.3525e-02	4.1000e+00
130	IHT0000003	-0.3944	0.1916	-0.0311	9.6735e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	-0.0081	9.7377e-02	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0110	1.0595e-01	4.1000e+00
133	IHT0000006	-0.1239	0.2667	-0.0224	1.0617e-01	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT0000008	-0.0413	0.3493	0.0329	1.1084e-01	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0158	9.8648e-02	4.1000e+00
137	IHT0000010	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
138	IHT0000011	-0.2291	0.3568	-0.0026	9.9512e-02	4.1000e+00
139	IHT0000012	-0.0864	0.1089	-0.0122	9.5765e-02	4.1000e+00
140	IHT0000013	-0.3531	0.2329	-0.0640	1.1995e-01	4.1000e+00
141	IHT0000014	-0.2592	0.1314	-0.0170	1.0849e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0036	8.3612e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	-0.0131	8.6541e-02	4.1000e+00
144	IHT0000017	-0.4582	0.1277	-0.2004	1.1464e-01	4.1000e+00
145	IHT0000018	-0.3117	0.2742	-0.0110	1.1975e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1218	9.6976e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	-0.0036	1.1995e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
149	IHT0000022	-0.0939	0.2967	-0.0197	1.0358e-01	4.1000e+00
150	IHT0000023	-0.0113	0.3793	0.0317	9.0756e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0297	7.8523e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0268	6.1257e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0004	7.2866e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	0.0346	1.0625e-01	4.1000e+00

Test: Jul31_02 sum1 Date: Tue Jul 31 11:00:15 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0179	1.0168e-01	4.1000e+00
157	IHT000030	-0.3831	0.2028	0.0153	9.6332e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0527	1.0617e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0216	8.4997e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	-0.0102	7.9017e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0344	6.6498e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	-0.0067	9.8648e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0272	1.1084e-01	4.1000e+00

Test: Jul31_02

sum2

Date: Tue Jul 31 11:00:15 1990

Page: 1

Velocity 1 = 24.0164 (ft/sec) (+/- 1.6952 %)

Velocity 2 = 13.4263 (ft/sec) (+/- 1.7032 %)

Pressure drop = 17.1270 (psi)

Tsats in = 274.0186 (deg F) Tsats out = 246.8323 (deg F)

Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3643.0867 %)

Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6045.3120 %)

D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)

L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1660	1.5769e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9984	1.4641e-01	1.9000e+00
2	TFM000001	87.3678	87.9991	87.6535	2.0001e-01	1.9002e+00
3	TIN000001	86.4725	87.1049	86.7180	1.4955e-01	1.9002e+00
4	TRV000001	86.8427	87.7857	87.3602	1.9285e-01	1.9002e+00
5	TSR000001	87.5762	88.1019	87.8253	1.5698e-01	1.9002e+00
6	TAO020136	80.1593	81.0066	80.6455	2.2554e-01	1.9001e+00
7	TAO050136	86.9156	87.5459	87.2581	1.5419e-01	1.9002e+00
8	TAO070136	86.9302	87.7736	87.3905	2.0825e-01	1.9002e+00
9	TAO080136	86.8161	87.3418	87.0694	1.7256e-01	1.9002e+00
10	TAO090136	87.4921	88.1223	87.8197	1.6957e-01	1.9002e+00
11	TAO100136	86.8456	87.4763	87.1392	1.5179e-01	1.9002e+00
12	TAO105136	87.6660	88.5075	88.1701	2.2921e-01	1.9002e+00
13	TAO110136	87.2211	87.8504	87.5245	1.4695e-01	1.9002e+00
14	TAO115136	87.3826	88.1193	87.7604	2.2201e-01	1.9002e+00
15	TAO120136	87.0005	87.5268	87.2559	1.2349e-01	1.9002e+00
16	TAO125136	87.5335	88.3736	87.9576	1.6185e-01	1.9002e+00
17	TAO130136	86.7590	87.4893	87.1716	1.6921e-01	1.9002e+00
18	TAO120048	72.4342	73.0729	72.8118	1.4428e-01	1.9000e+00
19	TAO130048	86.8311	87.3572	87.0547	1.4332e-01	1.9002e+00
20	TAO120224	87.1493	87.6759	87.3988	1.6585e-01	1.9002e+00
21	TAO130224	87.1084	87.7355	87.4001	1.6563e-01	1.9002e+00
22	TAO120312	87.1317	87.8681	87.4624	1.5343e-01	1.9002e+00
23	TAO130312	86.9005	87.5306	87.2109	1.6190e-01	1.9002e+00
24	TRT020000	87.2998	88.1424	87.7640	2.0046e-01	1.9002e+00
25	TRT070000	87.0745	88.0243	87.5915	1.8932e-01	1.9002e+00
26	TRT100000	87.4515	88.1862	87.8325	2.0045e-01	1.9002e+00
27	TRT120000	87.2567	87.7826	87.5869	1.4397e-01	1.9002e+00
28	TRT125000	87.2445	88.0828	87.6078	1.8650e-01	1.9002e+00
29	TRT130000	87.1640	87.6898	87.3706	1.2688e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6010	2.0685e-01	1.9011e+00
31	TAF050136	87.4006	88.5523	87.8028	1.9185e-01	1.9002e+00
32	TAF070136	87.8107	88.5434	88.1569	1.6983e-01	1.9002e+00
33	TAF080136	87.3638	87.9932	87.7141	1.5215e-01	1.9002e+00
34	TAF090136	72.9865	74.0492	73.5677	2.7065e-01	1.9000e+00
35	TAF100136	87.2132	87.9504	87.5789	1.9706e-01	1.9002e+00
36	TAF105136	87.1173	88.0582	87.5823	2.0665e-01	1.9002e+00
37	TAF110136	87.1484	87.6736	87.3890	1.5304e-01	1.9002e+00
38	TAF115136	87.6424	88.4820	87.9807	1.8451e-01	1.9002e+00
39	TAF120136	87.4747	87.9998	87.7462	1.2689e-01	1.9002e+00
40	TAF125136	87.3481	88.2882	87.8385	2.2657e-01	1.9002e+00
41	TAF130136	87.3403	87.8658	87.6231	1.4719e-01	1.9002e+00
42	TAF120048	87.6081	88.5574	88.0472	2.3228e-01	1.9002e+00
43	TAF130048	87.3096	87.9408	87.6187	1.7608e-01	1.9002e+00
44	TAF120224	87.4058	88.0364	87.6716	1.5167e-01	1.9002e+00
45	TAF130224	86.8260	87.5640	87.1614	1.8592e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1241	2.3494e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2027	9.9772e-02	1.9010e+00
48	TAI130048	87.3039	88.5633	87.8371	2.9142e-01	1.9002e+00
49	TAI130136	86.8130	87.5484	87.1904	1.8776e-01	1.9002e+00
50	TAI130224	87.6518	88.8089	88.1843	2.7954e-01	1.9002e+00
51	TAI130312	87.1234	87.8606	87.4417	1.8901e-01	1.9002e+00
52	TRR130000	85.9813	86.9262	86.4231	2.2049e-01	1.9002e+00
53	TSI000001	81.3410	82.0794	81.7068	1.7242e-01	1.9001e+00
54	TSI000002	75.0515	75.8989	75.4628	2.3725e-01	1.9000e+00
55	TSO000001	73.3756	74.1213	73.7060	1.6743e-01	1.9000e+00
56	TSO000002	74.6718	75.5222	75.0408	2.2328e-01	1.9000e+00
57	TAF020136	86.6850	87.4249	86.9697	2.0122e-01	1.9002e+00
58	TAF120312	86.6445	87.8010	87.2796	2.8847e-01	1.9002e+00
59	TAF130312	86.5595	87.2952	86.9881	1.6456e-01	1.9002e+00
60	EMPTY	0.4980	0.5078	0.4996	2.5191e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5136	1.9103e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5274	6.9754e-04	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5419	6.9754e-04	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3525	2.1547e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3758	9.7615e-04	0.0000e+00
66	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
67	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4297	0.4249	1.2165e-03	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4441	1.3951e-03	0.0000e+00
70	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4832	9.7615e-04	0.0000e+00
72	EMPTY	0.4932	0.5029	0.4980	9.9670e-04	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5177	6.9754e-04	0.0000e+00
74	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5517	6.9754e-04	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5665	6.9754e-04	0.0000e+00
77	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6093	2.0584e-03	0.0000e+00
79	EMPTY	0.6299	0.6299	0.6299	0.0000e+00	0.0000e+00
80	PAN020136	59.9144	63.5002	61.3562	8.7187e-01	8.8342e-01
81	PAN050136	110.3700	112.0485	111.0022	4.0611e-01	1.7028e+00
82	PAN070136	75.2320	76.1475	75.6851	2.3536e-01	8.9034e-01
83	PAN080136	37.4957	38.1060	37.8164	1.4936e-01	8.7512e-01
84	PAN090136	39.1199	40.0354	39.7256	1.6140e-01	8.7565e-01
85	PAN100136	28.3507	29.0373	28.6668	1.5728e-01	8.7295e-01
86	PAN105136	17.5998	18.1338	17.8707	1.1660e-01	8.7115e-01
87	PAN110136	18.9526	19.7155	19.4243	1.8207e-01	8.7135e-01
88	PAN115136	19.7066	20.1644	19.9511	1.0210e-01	8.7143e-01
89	PAN120136	19.5351	19.9928	19.7530	1.0330e-01	8.7140e-01
90	PAN125136	22.0117	22.3932	22.1892	1.0139e-01	8.7177e-01
91	PAN130136	17.6613	18.2717	18.0039	1.2948e-01	8.7116e-01
92	PAN120048	33.2936	34.1329	33.7389	2.1030e-01	8.7408e-01
93	PAN130048	39.9811	41.5070	40.6895	2.4076e-01	8.7593e-01
94	PAN120224	31.7825	32.3929	32.1562	1.5357e-01	8.7371e-01
95	PAN130224	38.2220	38.9086	38.5614	1.5184e-01	8.7532e-01
96	PAN120312	37.0013	37.5354	37.2395	1.3454e-01	8.7497e-01
97	PAN130312	40.5079	41.2708	40.9610	1.7160e-01	8.7601e-01
98	PAB000136	44.4960	44.9537	44.6838	1.0745e-01	5.9066e-01
99	PAB100136	31.7253	31.9541	31.8308	6.2824e-02	5.8543e-01
100	PAB125136	28.0905	28.2736	28.1811	4.1251e-02	5.8426e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	44.0858	44.8182	44.4072	1.7208e-01	7.5817e-01
102	PRV000001	24.3456	24.4677	24.3855	5.7837e-02	7.5247e-01
103	PSR000001	25.3763	25.4983	25.3788	1.7439e-02	7.5268e-01
104	PFM000001	88.1353	89.5086	88.9032	2.7327e-01	5.4717e-01
105	PAN000136	470.4229	477.7471	474.1692	1.8493e+00	5.0608e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0098	0.0146	0.0100	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	1.4258	-3.2342	3.1726e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0063	2.2287e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0042	1.7263e-03	0.0000e+00
112	VPW000001	-0.0601	0.5259	0.0675	1.2321e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0222	9.0949e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0252	1.1960e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0008	1.1117e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0296	1.0517e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0025	1.2135e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.1127	1.1956e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.2428	1.3283e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4148	1.1598e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1046	2.6370e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.0082	3.2992e-01	2.0000e+00
123	IPW000006	-1.0423	0.9109	-0.0159	4.0172e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0199	3.9664e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5510e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	3.2344e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.0572e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0068	1.1117e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0153	6.2908e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0277	8.5810e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0015	1.0625e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	-0.0032	9.6150e-02	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0004	1.1059e-01	4.1000e+00
134	IHT000007	-0.2104	0.7662	0.0089	1.3000e-01	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0105	8.7123e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0202	7.5986e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0189	9.3931e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0180	8.7123e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	-0.0067	1.0486e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0063	1.0746e-01	4.1000e+00
141	IHT000014	-0.6498	0.1314	-0.0001	1.4032e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0035	6.2908e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0238	1.0594e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0360	2.1507e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0048	1.1276e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1486	7.9736e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0144	1.0409e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	-0.0001	9.2540e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0341	9.0949e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0126	7.5986e-02	4.1000e+00
151	IHT000024	-0.1578	0.4282	0.0376	8.9148e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0209	6.9053e-02	4.1000e+00
153	IHT000026	-0.3756	0.2104	-0.0168	9.2189e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	-0.0073	7.4477e-02	4.1000e+00
155	IHT000028	-0.3756	0.2103	-0.0288	1.3381e-01	4.1000e+00

Test: Jul31_02

sum2

Date: Tue Jul 31 11:00:15 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0145	1.0548e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0115	1.0911e-01	4.1000e+00
158	IHT000031	-0.2442	0.1465	0.0269	1.0409e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0187	9.2540e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0183	8.9148e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0148	6.2908e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0216	9.3759e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0097	1.2028e-01	4.1000e+00

Velocity 1 = 0.003599 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.024099 (psi)
 Tsat in = 0.063110 (deg F) Tsat out = 0.018692 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0446	0.0601
1	TRF000002	0.0681	0.0921
2	TFM000001	0.0539	0.0615
3	TIN000001	0.0247	0.0285
4	TRV000001	0.0065	0.0074
5	TSR000001	0.0035	0.0040
6	TAO020136	0.0221	0.0274
7	TAO050136	0.0152	0.0174
8	TAO070136	0.0471	0.0539
9	TAO080136	0.0034	0.0039
10	TAO090136	0.0124	0.0141
11	TAO100136	0.0383	0.0439
12	TAO105136	0.0384	0.0435
13	TAO110136	0.0356	0.0407
14	TAO115136	0.0664	0.0757
15	TAO120136	0.0097	0.0111
16	TAO125136	0.0168	0.0191
17	TAO130136	0.0248	0.0285
18	TAO120048	0.0329	0.0452
19	TAO130048	0.0291	0.0334
20	TAO120224	0.0469	0.0537
21	TAO130224	0.0412	0.0472
22	TAO120312	0.0864	0.0989
23	TAO130312	0.0166	0.0190
24	TRT020000	0.0203	0.0231
25	TRT070000	0.0067	0.0076
26	TRT100000	0.0009	0.0010
27	TRT120000	0.0438	0.0500
28	TRT125000	0.0095	0.0108
29	TRT130000	0.0379	0.0434
30	EMPTY	0.0229	0.0579
31	TAF050136	0.0080	0.0091
32	TAF070136	0.0485	0.0550
33	TAF080136	0.0486	0.0554
34	TAF090136	0.0031	0.0042
35	TAF100136	0.0138	0.0157
36	TAF105136	0.1175	0.1343
37	TAF110136	0.0131	0.0150
38	TAF115136	0.0485	0.0552
39	TAF120136	0.0200	0.0228
40	TAF125136	0.0181	0.0206
41	TAF130136	0.0181	0.0207
42	TAF120048	0.0635	0.0722
43	TAF130048	0.0228	0.0260
44	TAF120224	0.0220	0.0251
45	TAF130224	0.0192	0.0220

#	Name	Abs Diff	%Diff
46	EMPTY	0.0071	0.0186
47	EMPTY	0.0149	0.0380
48	TAI130048	0.0041	0.0047
49	TAI130136	0.0075	0.0086
50	TAI130224	0.0736	0.0834
51	TAI130312	0.0274	0.0313
52	TRR130000	0.0171	0.0198
53	TSI000001	0.0054	0.0066
54	TSI000002	0.0927	0.1230
55	TSO000001	0.0022	0.0030
56	TSO000002	0.0182	0.0242
57	TAF020136	0.0097	0.0112
58	TAF120312	0.0210	0.0241
59	TAF130312	0.0125	0.0144
60	EMPTY	0.0001	0.0200
61	EMPTY	0.0008	0.1560
62	EMPTY	0.0003	0.0569
63	EMPTY	0.0001	0.0185
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0001	0.0256
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0471
69	EMPTY	0.0001	0.0225
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0002	0.0414
72	EMPTY	0.0001	0.0201
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0000	0.0000
75	EMPTY	0.0001	0.0181
76	EMPTY	0.0003	0.0530
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0003	0.0493
79	EMPTY	0.0001	0.0159
80	PAN020136	0.0688	0.1120
81	PAN050136	0.2498	0.2245
82	PAN070136	0.1191	0.1571
83	PAN080136	0.0271	0.0716
84	PAN090136	0.0947	0.2378
85	PAN100136	0.0287	0.1000
86	PAN105136	0.0876	0.4878
87	PAN110136	0.0150	0.0772
88	PAN115136	0.0409	0.2046
89	PAN120136	0.0155	0.0784
90	PAN125136	0.0325	0.1467
91	PAN130136	0.0770	0.4259
92	PAN120048	0.0247	0.0732
93	PAN130048	0.1568	0.3839
94	PAN120224	0.1054	0.3267
95	PAN130224	0.0131	0.0340
96	PAN120312	0.0578	0.1550
97	PAN130312	0.0810	0.1974
98	PAB000136	0.0466	0.1042
99	PAB100136	0.0254	0.0797
100	PAB125136	0.0091	0.0323

Test: Jul31_02

dif

Date: Tue Jul 31 11:00:15 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0790	0.1776
102	PRV000001	0.0008	0.0033
103	PSR000001	0.0023	0.0091
104	PFM000001	0.0263	0.0296
105	PAN000136	0.6665	0.1404
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0001	1.0101
108	EMPTY	0.5238	19.3256
109	EMPTY	0.0008	14.5455
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0002	5.0000
112	VPW000001	0.0768	825.8065
113	VPW000002	0.0183	45.1852
114	VPW000003	0.0100	65.7895
115	VPW000004	0.0283	97.2509
116	VPW000005	0.0389	418.2795
117	VPW000006	0.0382	93.8575
118	IPW000001	0.3904	77.5989
119	IPW000002	0.2923	590.5050
120	IPW000003	0.3908	1628.3333
121	IPW000004	0.0753	256.9966
122	IPW000005	0.0980	92.2787
123	IPW000006	0.1162	115.8524
124	EMPTY	0.0010	5.2910
125	EMPTY	0.0010	7.1429
126	EMPTY	0.0002	1.2500
127	EMPTY	0.0008	5.0955
128	IHT000001	0.0167	168.6869
129	IHT000002	0.0196	455.8139
130	IHT000003	0.0034	10.9325
131	IHT000004	0.0096	118.5185
132	IHT000005	0.0142	129.0909
133	IHT000006	0.0220	98.2143
134	IHT000007	0.0034	27.6423
135	IHT000008	0.0224	68.0851
136	IHT000009	0.0044	27.8481
137	IHT000010	0.0404	187.9070
138	IHT000011	0.0206	792.3076
139	IHT000012	0.0055	45.0820
140	IHT000013	0.0577	90.1563
141	IHT000014	0.0169	99.4118
142	IHT000015	0.0001	2.7778
143	IHT000016	0.0369	281.6794
144	IHT000017	0.2364	117.9641
145	IHT000018	0.0062	56.3636
146	IHT000019	0.0268	22.0033
147	IHT000020	0.0180	500.0000
148	IHT000021	0.0378	100.2653
149	IHT000022	0.0144	73.0965
150	IHT000023	0.0191	60.2524
151	IHT000024	0.0079	26.5993
152	IHT000025	0.0189	944.9999
153	IHT000026	0.0436	162.6866
154	IHT000027	0.0077	1925.0000
155	IHT000028	0.0634	183.2370

Test: Jul31_02 dif Date: Tue Jul 31 11:00:15 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0324	181.0056
157	IHT000030	0.0038	24.8366
158	IHT000031	0.0258	48.9564
159	IHT000032	0.0403	186.5741
160	IHT000033	0.0285	279.4118
161	IHT000034	0.0196	56.9767
162	IHT000035	0.0283	422.3881
163	IHT000036	0.0175	64.3382

Velocity 1 = 21.9407 (ft/sec) (+/- 1.7053 %)
Velocity 2 = 13.4256 (ft/sec) (+/- 1.7032 %)
Pressure drop = 13.6696 (psi)
Tsat in = 268.5718 (deg F) Tsat out = 245.6488 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3673.4431 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5401.2769 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1680	1.6254e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9642	1.3049e-01	1.9000e+00
2	TFM000001	86.6333	87.5789	87.0915	2.0222e-01	1.9002e+00
3	TIN000001	85.9463	86.5789	86.2372	1.5435e-01	1.9002e+00
4	TRV000001	86.4257	87.3681	86.8520	2.0067e-01	1.9002e+00
5	TSR000001	86.9493	87.5797	87.2766	1.3186e-01	1.9002e+00
6	TAO020136	80.2648	81.1122	80.6337	2.0657e-01	1.9001e+00
7	TAO050136	86.3934	87.1279	86.7243	1.7914e-01	1.9002e+00
8	TAO070136	86.5078	87.2459	86.8328	1.7157e-01	1.9002e+00
9	TAO080136	86.7948	86.9235	86.5671	1.4084e-01	1.9002e+00
10	TAO090136	86.9672	87.7032	87.3080	1.7437e-01	1.9002e+00
11	TAO100136	86.3201	86.9520	86.6402	1.4572e-01	1.9002e+00
12	TAO105136	87.3495	88.0869	87.7036	1.9464e-01	1.9002e+00
13	TAO110136	86.8041	87.4342	87.1062	1.4745e-01	1.9002e+00
14	TAO115136	86.7507	87.5931	87.1638	2.1247e-01	1.9002e+00
15	TAO120136	86.4746	87.0016	86.7276	1.5911e-01	1.9002e+00
16	TAO125136	87.1136	87.8491	87.4586	1.6583e-01	1.9002e+00
17	TAO130136	86.3447	87.0747	86.6828	1.5724e-01	1.9002e+00
18	TAO120048	72.8586	73.3915	73.1272	1.6542e-01	1.9000e+00
19	TAO130048	86.2029	86.8343	86.5310	1.4189e-01	1.9002e+00
20	TAO120224	86.5199	87.2556	86.8773	1.5470e-01	1.9002e+00
21	TAO130224	86.5871	87.3190	86.8802	1.6375e-01	1.9002e+00
22	TAO120312	86.4997	87.5522	86.9424	1.9840e-01	1.9002e+00
23	TAO130312	86.3757	87.2156	86.7374	1.4121e-01	1.9002e+00
24	TRT020000	86.7724	87.6160	87.2490	1.8832e-01	1.9002e+00
25	TRT070000	86.7565	87.3907	87.0865	1.4094e-01	1.9002e+00
26	TRT100000	86.9288	87.7676	87.3182	1.9083e-01	1.9002e+00
27	TRT120000	86.7329	87.4682	87.0768	1.6460e-01	1.9002e+00
28	TRT125000	86.8265	87.5607	87.1289	1.5938e-01	1.9002e+00
29	TRT130000	86.5356	87.1656	86.9053	1.4132e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6791	2.0447e-01	1.9011e+00
31	TAF050136	86.9817	87.7162	87.2593	1.6114e-01	1.9002e+00
32	TAF070136	86.9755	88.0212	87.5781	2.2225e-01	1.9002e+00
33	TAF080136	86.7386	87.5767	87.1903	1.6317e-01	1.9002e+00
34	TAF090136	73.4113	74.5784	73.8784	2.8436e-01	1.9000e+00
35	TAF100136	86.7920	87.6350	87.0958	1.8630e-01	1.9002e+00
36	TAF105136	86.4921	87.4335	86.9688	2.2533e-01	1.9002e+00
37	TAF110136	86.3123	87.0470	86.8321	1.6004e-01	1.9002e+00
38	TAF115136	87.0141	87.8541	87.4421	1.8459e-01	1.9002e+00
39	TAF120136	86.9510	87.5818	87.2494	1.3141e-01	1.9002e+00
40	TAF125136	86.7230	87.9774	87.3954	2.7565e-01	1.9002e+00
41	TAF130136	86.7113	87.4470	87.0771	1.6061e-01	1.9002e+00
42	TAF120048	87.0795	87.9242	87.5187	2.1793e-01	1.9002e+00
43	TAF130048	86.6805	87.5217	87.1178	1.8426e-01	1.9002e+00
44	TAF120224	86.7764	87.7219	87.1298	2.2222e-01	1.9002e+00
45	TAF130224	86.4034	86.9313	86.6484	1.4980e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.0332e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2337	1.2178e-01	1.9010e+00
48	TAI130048	86.7783	88.1442	87.3751	3.0125e-01	1.9002e+00
49	TAI130136	86.1854	87.0257	86.6553	2.1211e-01	1.9002e+00
50	TAI130224	87.2302	88.1778	87.7486	2.4692e-01	1.9002e+00
51	TAI130312	86.4923	87.3346	86.9643	1.8564e-01	1.9002e+00
52	TRR130000	85.5621	86.5078	85.9868	2.3419e-01	1.9002e+00
53	TSI000001	81.1305	81.9745	81.5059	1.4944e-01	1.9001e+00
54	TSI000002	75.0521	76.2167	75.7378	2.7886e-01	1.9000e+00
55	TSO000001	73.9089	74.7608	74.2581	1.8011e-01	1.9000e+00
56	TSO000002	74.8846	75.7343	75.3432	2.0289e-01	1.9000e+00
57	TAF020136	86.0507	86.8954	86.4436	1.8368e-01	1.9002e+00
58	TAF120312	86.2243	87.3812	86.8008	2.6954e-01	1.9002e+00
59	TAF130312	86.1399	86.9809	86.4552	1.6583e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4881	1.3811e-03	0.0000e+00
61	EMPTY	0.4932	0.5078	0.5026	1.8216e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3694	2.3365e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4198	1.2041e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4392	1.1714e-03	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4930	9.6655e-04	0.0000e+00
73	EMPTY	0.5127	0.5273	0.5130	2.0716e-03	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5273	9.8648e-04	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.6006	0.6104	0.6043	2.3261e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6252	9.6655e-04	0.0000e+00
80	PAN020136	47.4022	50.4539	48.8335	7.0374e-01	8.7852e-01
81	PAN050136	87.7870	89.6181	88.6782	3.6522e-01	1.6946e+00
82	PAN070136	59.8969	60.9650	60.4112	2.3315e-01	8.8301e-01
83	PAN080136	30.0951	30.7818	30.3850	1.4784e-01	8.7331e-01
84	PAN090136	30.9564	31.8720	31.4127	1.8719e-01	8.7354e-01
85	PAN100136	22.1709	22.8575	22.5081	1.5188e-01	8.7182e-01
86	PAN105136	14.0139	14.4717	14.2062	1.3010e-01	8.7072e-01
87	PAN110136	14.9090	15.8245	15.3698	2.1411e-01	8.7085e-01
88	PAN115136	16.0445	16.5023	16.2536	1.0546e-01	8.7095e-01
89	PAN120136	15.1863	15.7204	15.4716	1.0987e-01	8.7086e-01
90	PAN125136	18.0444	18.4259	18.2229	9.9427e-02	8.7119e-01
91	PAN130136	14.1518	14.6096	14.3273	1.0482e-01	8.7074e-01
92	PAN120048	25.7405	26.8087	26.2212	2.6033e-01	8.7247e-01
93	PAN130048	31.5125	33.0384	32.2281	2.9844e-01	8.7372e-01
94	PAN120224	24.7635	25.3738	25.0656	1.4619e-01	8.7225e-01
95	PAN130224	31.3555	31.9659	31.6424	1.4174e-01	8.7359e-01
96	PAN120312	28.9141	29.6771	29.3078	1.7463e-01	8.7308e-01
97	PAN130312	32.4970	33.1074	32.8114	1.5463e-01	8.7386e-01
98	PAB000136	40.5592	41.1085	40.8146	1.2884e-01	5.8891e-01
99	PAB100136	30.4893	30.6266	30.5497	3.8622e-02	5.8501e-01
100	PAB125136	27.5411	27.6785	27.6071	4.0481e-02	5.8409e-01

Test: Jul31_03

sum1

Date: Tue Jul 31 11:04:03 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0575	40.9120	40.4628	1.9797e-01	7.5679e-01
102	PRV000001	24.2235	24.4677	24.3676	5.3409e-02	7.5247e-01
103	PSR000001	25.2542	25.3763	25.2981	5.9189e-02	7.5266e-01
104	PFM000001	73.3954	75.2264	74.1516	4.4230e-01	5.3326e-01
105	PAN000136	374.2925	383.9056	378.4491	2.2250e+00	5.0101e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.8447	-2.8591	2.8694e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0028	2.4344e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0337	9.8569e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0210	9.0412e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0308	1.0440e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0213	9.9512e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	1.0447e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0134	1.0470e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.1517	1.0795e+00	8.1000e+00
119	IPW000002	-4.6155	3.1896	0.3407	1.4860e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3750	1.3066e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.0879	2.6908e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0672	2.9327e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0808	4.3282e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0194	3.7551e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0057	9.5112e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0113	5.5804e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0194	6.6498e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0003	9.8332e-02	4.1000e+00
132	IHT000005	-0.2742	0.1164	0.0110	1.0595e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0016	9.0756e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	0.0019	9.5112e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0209	8.8585e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0161	9.4702e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0494	1.1223e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0042	8.2864e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
144	IHT000017	-0.2629	0.3230	0.0261	2.2055e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	0.0008	9.6655e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1414	9.4125e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0277	1.0014e-01	4.1000e+00
148	IHT000021	-0.2591	0.1315	0.0143	1.0440e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0158	9.6655e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0161	8.8321e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0297	9.6332e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0111	7.3716e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	-0.0035	5.5243e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0033	1.1443e-01	4.1000e+00

Test: Jul31_03

sum1

Date: Tue Jul 31 11:04:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0056	8.4262e-02	4.1000e+00
157	IHT000030	-0.3831	0.5935	0.0270	1.4895e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0332	1.1223e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	-0.0021	9.0756e-02	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0249	1.0014e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0007	9.8648e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0284	1.1189e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0233	1.0440e-01	4.1000e+00

Velocity 1 = 21.9488 (ft/sec) (+/- 1.7053 %)
Velocity 2 = 13.4257 (ft/sec) (+/- 1.7032 %)
Pressure drop = 13.6878 (psi)
Tsat in = 268.5754 (deg F) Tsat out = 245.5874 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 7726.3589 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 13997.0273 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1747	1.7962e-01	1.9000e+00
1	TRF000002	73.5607	74.4101	74.0028	1.8308e-01	1.9000e+00
2	TFM000001	86.8433	87.5789	87.1330	1.7228e-01	1.9002e+00
3	TIN000001	85.8412	86.4734	86.2388	1.5990e-01	1.9002e+00
4	TRV000001	86.4242	87.2640	86.8373	2.1462e-01	1.9002e+00
5	TSR000001	86.8437	87.7888	87.2769	1.8394e-01	1.9002e+00
6	TAO020136	80.1592	81.1122	80.6649	2.6400e-01	1.9001e+00
7	TAO050136	86.3918	87.1274	86.7312	1.8345e-01	1.9002e+00
8	TAO070136	86.4024	87.3515	86.8845	2.3187e-01	1.9002e+00
9	TAO080136	86.0840	86.8202	86.5685	1.7801e-01	1.9002e+00
10	TAO090136	86.8621	87.5971	87.2786	1.8693e-01	1.9002e+00
11	TAO100136	86.2150	86.9520	86.6789	1.8963e-01	1.9002e+00
12	TAO105136	87.1390	88.1918	87.6614	2.3719e-01	1.9002e+00
13	TAO110136	86.5964	87.3291	87.0594	1.7918e-01	1.9002e+00
14	TAO115136	86.6456	87.6982	87.2259	2.3349e-01	1.9002e+00
15	TAO120136	86.3695	87.1067	86.7264	1.7828e-01	1.9002e+00
16	TAO125136	87.0086	87.7450	87.4806	1.6923e-01	1.9002e+00
17	TAO130136	86.2391	86.9733	86.6541	1.8851e-01	1.9002e+00
18	TAO120048	72.7523	73.4977	73.1349	1.7901e-01	1.9000e+00
19	TAO130048	86.2034	86.9381	86.5655	1.8096e-01	1.9002e+00
20	TAO120224	86.5193	87.1512	86.8696	1.6559e-01	1.9002e+00
21	TAO130224	86.4814	87.8406	86.9140	2.1528e-01	1.9002e+00
22	TAO120312	86.4997	87.3426	86.8977	1.7633e-01	1.9002e+00
23	TAO130312	86.2705	87.0072	86.7171	1.7250e-01	1.9002e+00
24	TRT020000	86.7730	87.7210	87.2673	2.0420e-01	1.9002e+00
25	TRT070000	86.7571	87.4957	87.1147	1.7335e-01	1.9002e+00
26	TRT100000	86.9270	87.7676	87.3733	2.2123e-01	1.9002e+00
27	TRT120000	86.7315	87.4677	87.1053	1.8098e-01	1.9002e+00
28	TRT125000	86.7214	87.4565	87.1288	1.8621e-01	1.9002e+00
29	TRT130000	86.5351	87.1667	86.9022	1.6654e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5916	2.3620e-01	1.9011e+00
31	TAF050136	86.9822	87.6126	87.3184	1.6200e-01	1.9002e+00
32	TAF070136	87.2876	88.1262	87.6395	2.1756e-01	1.9002e+00
33	TAF080136	86.6330	87.5767	87.1721	1.9858e-01	1.9002e+00
34	TAF090136	73.4113	74.4726	73.9247	2.5022e-01	1.9000e+00
35	TAF100136	86.5819	87.6350	87.0826	2.0678e-01	1.9002e+00
36	TAF105136	86.4921	87.4335	87.0233	2.5433e-01	1.9002e+00
37	TAF110136	86.4158	87.1520	86.8662	1.9413e-01	1.9002e+00
38	TAF115136	87.0136	87.7491	87.4189	1.9416e-01	1.9002e+00
39	TAF120136	86.8459	87.5818	87.2535	1.9131e-01	1.9002e+00
40	TAF125136	86.6180	87.8724	87.3562	3.5958e-01	1.9002e+00
41	TAF130136	86.6062	87.4465	87.0825	1.8845e-01	1.9002e+00
42	TAF120048	87.0795	88.0287	87.5534	2.4946e-01	1.9002e+00
43	TAF130048	86.5754	87.5217	87.1503	2.3405e-01	1.9002e+00
44	TAF120224	86.8810	87.5119	87.1135	1.5617e-01	1.9002e+00
45	TAF130224	86.2988	87.0364	86.6641	1.7886e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1569	1.8299e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2167	1.0693e-01	1.9010e+00
48	TAI130048	86.8827	87.9344	87.3980	3.2964e-01	1.9002e+00
49	TAI130136	86.1854	87.1293	86.6971	2.2848e-01	1.9002e+00
50	TAI130224	87.1252	88.2828	87.6538	2.9020e-01	1.9002e+00
51	TAI130312	86.4929	87.5449	86.9502	2.3485e-01	1.9002e+00
52	TRR130000	85.5626	86.5073	85.9678	2.2696e-01	1.9002e+00
53	TSI000001	81.1300	81.9740	81.4943	2.0554e-01	1.9001e+00
54	TSI000002	75.2635	76.2167	75.7670	2.5977e-01	1.9000e+00
55	TSO000001	73.9087	74.7608	74.3304	2.0845e-01	1.9000e+00
56	TSO000002	74.8846	75.6277	75.2855	1.8042e-01	1.9000e+00
57	TAF020136	86.0501	86.7903	86.4494	2.0370e-01	1.9002e+00
58	TAF120312	86.2243	87.3807	86.8104	3.0191e-01	1.9002e+00
59	TAF130312	86.0342	86.7712	86.4595	2.1247e-01	1.9002e+00
60	EMPTY	0.4834	0.4980	0.4883	2.2287e-03	0.0000e+00
61	EMPTY	0.4932	0.5078	0.5027	1.7146e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5167	1.9103e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5320	9.7615e-04	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3692	2.4037e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3856	6.9754e-04	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4055	9.7615e-04	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
70	EMPTY	0.4492	0.4590	0.4541	9.9670e-04	0.0000e+00
71	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4930	9.7615e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5125	9.7615e-04	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5277	1.3508e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5468	6.9754e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5616	6.9754e-04	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.6006	0.6152	0.6053	1.9832e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6254	1.3508e-03	0.0000e+00
80	PAN020136	47.5548	51.2169	49.1429	8.4595e-01	8.7863e-01
81	PAN050136	88.0922	89.7706	88.9610	3.5267e-01	1.6947e+00
82	PAN070136	59.8969	60.9650	60.4590	2.3188e-01	8.8303e-01
83	PAN080136	30.0189	30.7055	30.4190	1.5922e-01	8.7332e-01
84	PAN090136	31.1090	31.7194	31.4858	1.2104e-01	8.7355e-01
85	PAN100136	22.2472	22.7812	22.5306	1.2063e-01	8.7182e-01
86	PAN105136	13.9377	14.3954	14.1774	1.2747e-01	8.7072e-01
87	PAN110136	14.9090	15.9771	15.3823	2.5636e-01	8.7085e-01
88	PAN115136	16.0445	16.4260	16.2890	9.0781e-02	8.7095e-01
89	PAN120136	15.2626	15.7967	15.5304	1.1243e-01	8.7087e-01
90	PAN125136	17.9681	18.3496	18.2141	9.3784e-02	8.7119e-01
91	PAN130136	14.1518	14.6859	14.3745	9.1919e-02	8.7074e-01
92	PAN120048	25.8168	26.8087	26.2793	2.2102e-01	8.7248e-01
93	PAN130048	31.8177	32.6569	32.2163	2.1818e-01	8.7372e-01
94	PAN120224	24.9160	25.5264	25.1387	1.3291e-01	8.7227e-01
95	PAN130224	31.3555	31.8896	31.6109	1.3265e-01	8.7358e-01
96	PAN120312	28.9904	29.7534	29.3454	1.6741e-01	8.7309e-01
97	PAN130312	32.4970	33.1837	32.8505	1.5471e-01	8.7387e-01
98	PAB000136	40.5592	41.1085	40.8170	1.2456e-01	5.8891e-01
99	PAB100136	30.3977	30.6266	30.5388	4.8406e-02	5.8500e-01
100	PAB125136	27.4954	27.6327	27.5776	3.8503e-02	5.8408e-01

Test: Jul31_03

sum2

Date: Tue Jul 31 11:04:03 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1795	40.7899	40.4910	1.7094e-01	7.5680e-01
102	PRV000001	24.2235	24.4677	24.3830	6.2064e-02	7.5247e-01
103	PSR000001	25.1321	25.3763	25.2642	4.1968e-02	7.5265e-01
104	PFM000001	73.3954	74.9518	74.2062	4.3548e-01	5.3331e-01
105	PAN000136	374.7503	383.9056	378.9543	1.9346e+00	5.0104e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1827e-03	0.0000e+00
108	EMPTY	-10.0000	0.4834	-2.6293	2.1258e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0057	1.8234e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0032	2.3483e-03	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0675	1.0204e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0142	9.5812e-02	8.1000e-01
114	VPW000003	-0.2817	0.1089	-0.0107	1.0409e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0127	1.0533e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0336	1.0911e-01	8.1000e-01
117	VPW000006	-0.0413	0.1540	0.0424	9.7656e-02	8.1000e-01
118	IPW000001	-5.7444	2.0650	-0.0467	1.4824e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.0038	1.2401e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3352	1.1598e+00	8.1000e+00
121	IPW000004	-0.2441	0.2441	0.1545	1.9103e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0481	3.1451e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0240	3.6856e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	3.3057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.9111e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.1518e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.3362e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0132	1.0044e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0086	9.1305e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0122	8.7680e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0175	1.1319e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0327	1.0548e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0004	1.0315e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0208	8.6187e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0264	9.3931e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0122	8.7680e-02	4.1000e+00
137	IHT000010	-0.2442	0.3418	0.0109	1.0701e-01	4.1000e+00
138	IHT000011	-0.0338	0.3568	0.0220	9.7656e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0372	1.0315e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0216	9.6318e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0477	1.1276e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0164	6.4688e-02	4.1000e+00
143	IHT000016	-0.2592	0.1315	0.0318	1.0640e-01	4.1000e+00
144	IHT000017	-0.4582	0.3230	0.0280	2.1881e-01	4.1000e+00
145	IHT000018	-0.3117	0.0789	-0.0088	1.0594e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1407	1.1044e-01	4.1000e+00
147	IHT000020	-0.1052	0.0902	0.0224	9.3931e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0221	1.0315e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0047	8.7680e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0176	9.1305e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0090	9.7490e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0031	8.3705e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0126	6.4688e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0150	1.1276e-01	4.1000e+00

Test: Jul31_03

sum2

Date: Tue Jul 31 11:04:03 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0344	9.6150e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0354	8.9148e-02	4.1000e+00
158	IHT000031	-0.0488	0.1465	0.0269	9.6150e-02	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0067	8.7123e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0103	9.3759e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0068	8.3705e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0335	1.0701e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0022	9.8483e-02	4.1000e+00

Velocity 1 = 0.008099 (ft/sec)
 Velocity 2 = 0.000100 (ft/sec)
 Pressure Drop = 0.018201 (psi)
 Tsat in = 0.003601 (deg F) Tsat out = 0.061401 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0067	0.0090
1	TRF000002	0.0386	0.0522
2	TFM000001	0.0415	0.0477
3	TIN000001	0.0016	0.0019
4	TRV000001	0.0147	0.0169
5	TSR000001	0.0003	0.0003
6	TAO020136	0.0312	0.0387
7	TAO050136	0.0069	0.0080
8	TAO070136	0.0517	0.0595
9	TAO080136	0.0014	0.0016
10	TAO090136	0.0294	0.0337
11	TAO100136	0.0387	0.0447
12	TAO105136	0.0422	0.0481
13	TAO110136	0.0468	0.0537
14	TAO115136	0.0621	0.0712
15	TAO120136	0.0012	0.0014
16	TAO125136	0.0220	0.0251
17	TAO130136	0.0287	0.0331
18	TAO120048	0.0077	0.0105
19	TAO130048	0.0345	0.0399
20	TAO120224	0.0077	0.0089
21	TAO130224	0.0338	0.0389
22	TAO120312	0.0447	0.0514
23	TAO130312	0.0203	0.0234
24	TRT020000	0.0183	0.0210
25	TRT070000	0.0282	0.0324
26	TRT100000	0.0551	0.0631
27	TRT120000	0.0285	0.0327
28	TRT125000	0.0001	0.0001
29	TRT130000	0.0031	0.0036
30	EMPTY	0.0875	0.2205
31	TAF050136	0.0591	0.0677
32	TAF070136	0.0614	0.0701
33	TAF080136	0.0182	0.0209
34	TAF090136	0.0463	0.0627
35	TAF100136	0.0132	0.0152
36	TAF105136	0.0545	0.0627
37	TAF110136	0.0341	0.0393
38	TAF115136	0.0232	0.0265
39	TAF120136	0.0041	0.0047
40	TAF125136	0.0392	0.0449
41	TAF130136	0.0054	0.0062
42	TAF120048	0.0347	0.0396
43	TAF130048	0.0325	0.0373
44	TAF120224	0.0163	0.0187
45	TAF130224	0.0157	0.0181

#	Name	Abs Diff	%Diff
46	EMPTY	0.0307	0.0805
47	EMPTY	0.0170	0.0433
48	TAI130048	0.0229	0.0262
49	TAI130136	0.0418	0.0482
50	TAI130224	0.0948	0.1080
51	TAI130312	0.0141	0.0162
52	TRR130000	0.0190	0.0221
53	TSI000001	0.0116	0.0142
54	TSI000002	0.0292	0.0386
55	TSO000001	0.0723	0.0974
56	TSO000002	0.0577	0.0766
57	TAF020136	0.0058	0.0067
58	TAF120312	0.0096	0.0111
59	TAF130312	0.0043	0.0050
60	EMPTY	0.0002	0.0410
61	EMPTY	0.0001	0.0199
62	EMPTY	0.0013	0.2522
63	EMPTY	0.0001	0.0188
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0002	0.0541
66	EMPTY	0.0001	0.0259
67	EMPTY	0.0002	0.0493
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0002	0.0455
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0002	0.0418
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0005	0.0975
74	EMPTY	0.0004	0.0759
75	EMPTY	0.0001	0.0183
76	EMPTY	0.0001	0.0178
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0010	0.1655
79	EMPTY	0.0002	0.0320
80	PAN020136	0.3094	0.6336
81	PAN050136	0.2828	0.3189
82	PAN070136	0.0478	0.0791
83	PAN080136	0.0340	0.1119
84	PAN090136	0.0731	0.2327
85	PAN100136	0.0225	0.1000
86	PAN105136	0.0288	0.2027
87	PAN110136	0.0125	0.0813
88	PAN115136	0.0354	0.2178
89	PAN120136	0.0588	0.3801
90	PAN125136	0.0088	0.0483
91	PAN130136	0.0472	0.3294
92	PAN120048	0.0581	0.2216
93	PAN130048	0.0118	0.0366
94	PAN120224	0.0731	0.2916
95	PAN130224	0.0315	0.0995
96	PAN120312	0.0376	0.1283
97	PAN130312	0.0391	0.1192
98	PAB000136	0.0024	0.0059
99	PAB100136	0.0109	0.0357
100	PAB125136	0.0295	0.1069

#	Name	Abs Diff	%Diff
101	PIN0000001	0.0282	0.0697
102	PRV0000001	0.0154	0.0632
103	PSR0000001	0.0339	0.1340
104	PFM0000001	0.0546	0.0736
105	PAN000136	0.5052	0.1335
106	PFM0000002	0.0000	0.0000
107	EMPTY	0.0004	4.0404
108	EMPTY	0.2298	8.0375
109	EMPTY	0.0002	3.6364
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0004	14.2857
112	VPW0000001	0.0338	100.2967
113	VPW0000002	0.0068	32.3810
114	VPW0000003	0.0415	134.7403
115	VPW0000004	0.0086	40.3756
116	VPW0000005	0.0234	229.4117
117	VPW0000006	0.0290	216.4179
118	IPW0000001	0.1984	130.7844
119	IPW0000002	0.3369	98.8847
120	IPW0000003	0.0398	10.6133
121	IPW0000004	0.0666	75.7679
122	IPW0000005	0.0191	28.4226
123	IPW0000006	0.0568	70.2970
124	EMPTY	0.0008	4.1237
125	EMPTY	0.0001	0.7353
126	EMPTY	0.0001	0.6024
127	EMPTY	0.0001	0.6250
128	IHT0000001	0.0189	331.5789
129	IHT0000002	0.0199	176.1062
130	IHT0000003	0.0316	162.8866
131	IHT0000004	0.0178	5933.3330
132	IHT0000005	0.0217	197.2727
133	IHT0000006	0.0093	104.4944
134	IHT0000007	0.0124	147.6190
135	IHT0000008	0.0248	1550.0001
136	IHT0000009	0.0003	2.5210
137	IHT0000010	0.0090	473.6842
138	IHT0000011	0.0011	5.2632
139	IHT0000012	0.0533	331.0559
140	IHT0000013	0.0348	263.6364
141	IHT0000014	0.0017	3.4413
142	IHT0000015	0.0122	290.4762
143	IHT0000016	0.0059	15.6499
144	IHT0000017	0.0019	7.2797
145	IHT0000018	0.0096	1200.0000
146	IHT0000019	0.0007	0.4950
147	IHT0000020	0.0053	19.1336
148	IHT0000021	0.0056	39.1608
149	IHT0000022	0.0063	39.8734
150	IHT0000023	0.0114	70.8075
151	IHT0000024	0.0121	40.7407
152	IHT0000025	0.0070	349.9999
153	IHT0000026	0.0080	72.0721
154	IHT0000027	0.0161	460.0000
155	IHT0000028	0.0117	354.5454

Test: Jul31_03 dif Date: Tue Jul 31 11:04:03 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0288	514.2858
157	IHT000030	0.0084	31.1111
158	IHT000031	0.0063	18.9759
159	IHT000032	0.0088	419.0476
160	IHT000033	0.0146	58.6345
161	IHT000034	0.0075	1071.4287
162	IHT000035	0.0051	17.9577
163	IHT000036	0.0255	109.4421

Test: Jul31_04

sum1

Date: Tue Jul 31 11:07:12 1990

Page: 1

Velocity 1 = 19.9814 (ft/sec) (+/- 1.7205 %)
Velocity 2 = 13.4252 (ft/sec) (+/- 1.7032 %)
Pressure drop = 10.6960 (psi)
Tsats in = 263.4255 (deg F) Tsats out = 244.5272 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 26896.1348 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1823.3159 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1552	1.6271e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9727	1.3161e-01	1.9000e+00
2	TFM000001	86.3188	87.0540	86.7114	1.6149e-01	1.9002e+00
3	TIN000001	85.5247	86.2626	85.8728	1.7454e-01	1.9002e+00
4	TRV000001	86.0056	86.8441	86.4942	1.9015e-01	1.9002e+00
5	TSR000001	86.5302	87.1614	86.9188	1.3624e-01	1.9002e+00
6	TAO020136	80.0531	81.1122	80.5299	2.5058e-01	1.9001e+00
7	TAO050136	85.9734	86.7098	86.3499	1.7632e-01	1.9002e+00
8	TAO070136	85.9802	86.9295	86.4887	1.7925e-01	1.9002e+00
9	TAO080136	85.8750	86.7146	86.2222	1.8144e-01	1.9002e+00
10	TAO090136	86.6523	87.2839	86.9116	1.6736e-01	1.9002e+00
11	TAO100136	85.9002	86.5323	86.2477	1.3667e-01	1.9002e+00
12	TAO105136	86.9285	87.7712	87.3269	1.9293e-01	1.9002e+00
13	TAO110136	86.2824	87.0178	86.6750	1.5818e-01	1.9002e+00
14	TAO115136	86.3301	87.1726	86.7912	2.0608e-01	1.9002e+00
15	TAO120136	85.9490	86.6864	86.3514	1.4844e-01	1.9002e+00
16	TAO125136	86.7988	87.3257	87.0748	1.3422e-01	1.9002e+00
17	TAO130136	85.9298	86.5591	86.2581	1.6208e-01	1.9002e+00
18	TAO120048	72.9648	73.7100	73.2780	1.6289e-01	1.9000e+00
19	TAO130048	85.8882	86.4155	86.1351	1.3204e-01	1.9002e+00
20	TAO120224	86.2041	86.7313	86.4593	1.5480e-01	1.9002e+00
21	TAO130224	86.1707	86.8004	86.4701	1.3891e-01	1.9002e+00
22	TAO120312	86.2892	86.8166	86.5024	1.4036e-01	1.9002e+00
23	TAO130312	86.0609	86.5881	86.3077	1.1773e-01	1.9002e+00
24	TRT020000	86.3508	87.1945	86.8632	2.0975e-01	1.9002e+00
25	TRT070000	86.3342	86.9678	86.6867	1.5176e-01	1.9002e+00
26	TRT100000	86.5080	87.4539	87.0062	2.0308e-01	1.9002e+00
27	TRT120000	86.3117	87.0487	86.7012	1.4609e-01	1.9002e+00
28	TRT125000	86.3038	87.1433	86.7176	1.9564e-01	1.9002e+00
29	TRT130000	86.2202	86.8520	86.5299	1.6092e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.6148	2.3630e-01	1.9011e+00
31	TAF050136	86.5637	87.1943	86.9015	1.4112e-01	1.9002e+00
32	TAF070136	86.7661	87.7093	87.2210	2.1830e-01	1.9002e+00
33	TAF080136	86.5296	87.1600	86.8089	1.7783e-01	1.9002e+00
34	TAF090136	73.5166	74.4723	74.0204	2.4601e-01	1.9000e+00
35	TAF100136	86.3707	87.1083	86.6892	1.8734e-01	1.9002e+00
36	TAF105136	85.9717	87.1219	86.5874	2.9192e-01	1.9002e+00
37	TAF110136	86.1025	86.7338	86.4450	1.5854e-01	1.9002e+00
38	TAF115136	86.5951	87.5398	87.0462	2.0034e-01	1.9002e+00
39	TAF120136	86.4275	87.1637	86.8458	1.6634e-01	1.9002e+00
40	TAF125136	86.5141	87.4531	86.8975	2.3942e-01	1.9002e+00
41	TAF130136	86.3966	87.0281	86.7063	1.5803e-01	1.9002e+00
42	TAF120048	86.5510	87.6074	87.0853	2.3118e-01	1.9002e+00
43	TAF130048	86.1557	86.9958	86.6920	1.5784e-01	1.9002e+00
44	TAF120224	86.2519	87.0932	86.7126	1.6691e-01	1.9002e+00
45	TAF130224	85.8758	86.7203	86.2495	1.8850e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.0716e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.3581	87.6184	86.9445	3.0837e-01	1.9002e+00
49	TAI130136	85.8703	86.6070	86.2721	1.7828e-01	1.9002e+00
50	TAI130224	86.7039	88.1777	87.3464	3.6677e-01	1.9002e+00
51	TAI130312	86.0720	87.1246	86.5708	2.3282e-01	1.9002e+00
52	TRR130000	85.1433	86.0888	85.6619	2.3555e-01	1.9002e+00
53	TSI000001	81.0244	81.7642	81.3186	1.6285e-01	1.9001e+00
54	TSI000002	75.4744	76.4274	75.9174	2.5363e-01	1.9000e+00
55	TSO000001	74.1219	75.0805	74.5970	2.0445e-01	1.9000e+00
56	TSO000002	75.0968	75.9463	75.4598	1.9074e-01	1.9000e+00
57	TAF020136	85.7324	86.4723	86.0351	1.7480e-01	1.9002e+00
58	TAF120312	85.8040	86.8564	86.3534	2.5688e-01	1.9002e+00
59	TAF130312	85.7201	86.5614	86.0334	1.6370e-01	1.9002e+00
60	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
62	EMPTY	0.5029	0.5176	0.5069	2.5515e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3423	1.4797e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3657	1.4797e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
67	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5238	2.2146e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5421	6.9053e-04	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5569	1.1714e-03	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5776	2.4662e-03	0.0000e+00
78	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6249	6.9053e-04	0.0000e+00
80	PAN020136	37.0262	40.4594	38.2118	6.9979e-01	8.7523e-01
81	PAN050136	68.8661	70.2394	69.6382	3.4797e-01	1.6890e+00
82	PAN070136	46.8507	48.0714	47.4183	2.3986e-01	8.7804e-01
83	PAN080136	23.6865	24.2968	23.9489	1.4224e-01	8.7206e-01
84	PAN090136	23.8611	24.7003	24.2792	1.7455e-01	8.7211e-01
85	PAN100136	16.9829	17.5169	17.1919	1.3152e-01	8.7106e-01
86	PAN105136	10.6570	11.1911	10.9362	1.2293e-01	8.7043e-01
87	PAN110136	11.7046	12.3913	12.0586	1.7893e-01	8.7052e-01
88	PAN115136	12.6876	13.2216	12.9836	1.2583e-01	8.7061e-01
89	PAN120136	11.8294	12.2871	12.0216	9.7777e-02	8.7052e-01
90	PAN125136	14.5349	15.1452	14.7378	1.2000e-01	8.7078e-01
91	PAN130136	11.1001	11.5578	11.2740	1.0572e-01	8.7046e-01
92	PAN120048	19.6370	20.4763	20.0627	2.2128e-01	8.7144e-01
93	PAN130048	24.7223	25.7141	25.1831	2.8917e-01	8.7277e-01
94	PAN120224	18.8888	19.4992	19.2077	1.3760e-01	8.7132e-01
95	PAN130224	25.0231	25.7098	25.3863	1.3398e-01	8.7231e-01
96	PAN120312	22.2766	23.1158	22.6428	1.7302e-01	8.7184e-01
97	PAN130312	25.6306	26.1646	25.8732	1.1605e-01	8.7240e-01
98	PAB000136	37.1718	37.7211	37.4309	1.3421e-01	5.8750e-01
99	PAB100136	29.2991	29.5280	29.4044	4.6472e-02	5.8464e-01
100	PAB125136	26.9918	27.1749	27.0724	3.8754e-02	5.8394e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	36.7616	37.6161	37.1400	1.9768e-01	7.5573e-01
102	PRV0000001	24.3456	24.4677	24.4432	4.9324e-02	7.5249e-01
103	PSR0000001	25.1321	25.2542	25.2322	4.7374e-02	7.5265e-01
104	PFM0000001	60.6695	62.1344	61.4514	3.8542e-01	5.2307e-01
105	PAN000136	290.9796	300.1348	296.1249	1.9652e+00	4.9754e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0093	1.4797e-03	0.0000e+00
108	EMPTY	-10.0000	0.3906	-3.5878	3.3683e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	1.3951e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPW0000001	-0.0601	0.3305	0.0493	1.0559e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0210	9.0412e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	-0.0044	1.1223e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0369	9.5357e-02	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0376	1.2478e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0798	1.1765e-01	8.1000e-01
118	IPW0000001	-1.8397	4.0173	0.0346	1.3058e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	-0.2056	1.2961e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.2970	1.0393e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1269	2.5266e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0281	2.6097e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0124	3.1752e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.8662e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.6025e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	3.0180e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.6765e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	-0.0057	1.1712e-01	4.1000e+00
129	IHT0000002	-0.0113	0.1840	0.0043	5.3525e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	-0.0116	6.7888e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	-0.0081	1.1897e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	IHT0000006	-0.1239	0.2667	-0.0302	1.0617e-01	4.1000e+00
134	IHT0000007	-0.2104	0.3756	0.0006	8.6810e-02	4.1000e+00
135	IHT0000008	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0236	8.8321e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0248	9.0412e-02	4.1000e+00
139	IHT0000012	-0.2817	0.1089	0.0113	1.0625e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	0.0141	8.4997e-02	4.1000e+00
141	IHT0000014	-0.0639	0.1314	0.0494	9.7377e-02	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0075	3.9459e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
144	IHT0000017	-0.2629	0.3230	-0.0051	2.1410e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	-0.0188	1.1334e-01	4.1000e+00
146	IHT0000019	-0.1765	0.2141	-0.1218	9.6976e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0511	1.1161e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0455	1.0559e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0200	9.1354e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0376	7.8918e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	0.0058	1.0470e-01	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0072	8.7880e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0043	8.6810e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0045	1.1334e-01	4.1000e+00

Test: Jul31_04

sum1

Date: Tue Jul 31 11:07:12 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0056	9.3043e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0114	9.2456e-02	4.1000e+00
158	IHT000031	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0018	9.3043e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0289	1.0145e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	7.8918e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0362	9.2034e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0115	1.0595e-01	4.1000e+00

Velocity 1 = 20.0214 (ft/sec) (+/- 1.7201 %)
 Velocity 2 = 13.4252 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 10.7072 (psi)
 T_{sat} in = 263.4708 (deg F) T_{sat} out = 244.5188 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft²) (+/- 3083.4456 %)
 Phi outer = 0.0000 (kBtu/hr-ft²) (+/- 4719.3682 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1964	1.6524e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9811	1.6501e-01	1.9000e+00
2	TFM000001	86.4232	87.0540	86.7174	1.7165e-01	1.9002e+00
3	TIN000001	85.5247	86.2628	85.8864	1.5061e-01	1.9002e+00
4	TRV000001	86.1092	86.8456	86.4830	1.8690e-01	1.9002e+00
5	TSR000001	86.6344	87.3706	86.8970	1.7035e-01	1.9002e+00
6	TAO020136	79.9474	81.0066	80.5786	2.3168e-01	1.9001e+00
7	TAO050136	86.0791	86.7098	86.3898	1.6183e-01	1.9002e+00
8	TAO070136	85.9798	86.8245	86.4754	2.1445e-01	1.9002e+00
9	TAO080136	85.8750	86.5061	86.2103	1.4654e-01	1.9002e+00
10	TAO090136	86.4426	87.4930	86.9662	2.7075e-01	1.9002e+00
11	TAO100136	85.9007	86.5323	86.2849	1.5867e-01	1.9002e+00
12	TAO105136	86.7185	87.7712	87.2620	2.2157e-01	1.9002e+00
13	TAO110136	86.2824	87.0178	86.6812	1.9358e-01	1.9002e+00
14	TAO115136	86.3301	87.2780	86.8093	2.3546e-01	1.9002e+00
15	TAO120136	86.1592	86.6864	86.4004	1.4419e-01	1.9002e+00
16	TAO125136	86.5890	87.4304	87.0870	1.8433e-01	1.9002e+00
17	TAO130136	85.9335	86.5591	86.2779	1.3919e-01	1.9002e+00
18	TAO120048	72.9648	73.6033	73.3127	1.5323e-01	1.9000e+00
19	TAO130048	85.7844	86.5198	86.1809	1.4612e-01	1.9002e+00
20	TAO120224	86.0997	86.8357	86.4667	1.5950e-01	1.9002e+00
21	TAO130224	86.1707	86.9029	86.5021	1.6341e-01	1.9002e+00
22	TAO120312	86.1840	86.8166	86.5240	1.8273e-01	1.9002e+00
23	TAO130312	86.0609	86.6921	86.3450	1.4760e-01	1.9002e+00
24	TRT020000	86.4565	87.2997	86.8844	2.1006e-01	1.9002e+00
25	TRT070000	86.3342	87.0728	86.7133	1.7082e-01	1.9002e+00
26	TRT100000	86.6137	87.3489	86.9844	1.9417e-01	1.9002e+00
27	TRT120000	86.5216	87.0487	86.7499	1.3981e-01	1.9002e+00
28	TRT125000	86.4108	87.1428	86.7242	1.6424e-01	1.9002e+00
29	TRT130000	86.2202	86.7474	86.5257	1.2395e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6103	2.2221e-01	1.9011e+00
31	TAF050136	86.5637	87.4035	86.9043	1.6547e-01	1.9002e+00
32	TAF070136	86.6610	87.7088	87.2305	2.4292e-01	1.9002e+00
33	TAF080136	86.3217	87.1600	86.8191	1.8599e-01	1.9002e+00
34	TAF090136	73.3045	74.6851	74.0848	3.0208e-01	1.9000e+00
35	TAF100136	86.2655	87.1088	86.7044	1.9752e-01	1.9002e+00
36	TAF105136	86.0751	87.2252	86.5725	2.6274e-01	1.9002e+00
37	TAF110136	86.1030	86.9429	86.4907	1.8588e-01	1.9002e+00
38	TAF115136	86.5951	87.5392	87.0685	2.2172e-01	1.9002e+00
39	TAF120136	86.6367	87.1637	86.8993	1.2734e-01	1.9002e+00
40	TAF125136	86.5146	87.5610	86.9609	2.9066e-01	1.9002e+00
41	TAF130136	86.2927	87.0281	86.7020	1.8849e-01	1.9002e+00
42	TAF120048	86.5510	87.6066	87.1350	2.4771e-01	1.9002e+00
43	TAF130048	86.3656	87.3120	86.7609	2.0067e-01	1.9002e+00
44	TAF120224	86.2535	87.0932	86.7371	2.0319e-01	1.9002e+00
45	TAF130224	85.9818	86.6144	86.2722	1.6885e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1429	1.7367e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2308	1.1185e-01	1.9010e+00
48	TAI130048	86.4632	87.6184	87.0509	3.0247e-01	1.9002e+00
49	TAI130136	85.7665	86.8163	86.2869	2.1099e-01	1.9002e+00
50	TAI130224	86.5988	87.8624	87.3660	2.9861e-01	1.9002e+00
51	TAI130312	86.1768	87.0196	86.6068	1.9082e-01	1.9002e+00
52	TRR130000	85.1433	86.0888	85.6427	2.4023e-01	1.9002e+00
53	TSI000001	81.0244	81.6587	81.3269	1.6267e-01	1.9001e+00
54	TSI000002	75.3696	76.3227	75.8490	2.5926e-01	1.9000e+00
55	TSO000001	74.1219	74.9744	74.6655	2.0764e-01	1.9000e+00
56	TSO000002	74.9902	75.8398	75.4544	2.0522e-01	1.9000e+00
57	TAF020136	85.6272	86.5782	86.0607	1.6870e-01	1.9002e+00
58	TAF120312	85.9090	86.9613	86.4461	2.5324e-01	1.9002e+00
59	TAF130312	85.7201	86.3517	86.0571	1.6064e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4787	1.3951e-03	0.0000e+00
61	EMPTY	0.4932	0.5078	0.4935	2.0926e-03	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5071	1.7263e-03	0.0000e+00
63	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3420	9.7615e-04	0.0000e+00
65	EMPTY	0.3564	0.3662	0.3649	2.3953e-03	0.0000e+00
66	EMPTY	0.3760	0.3857	0.3809	9.9670e-04	0.0000e+00
67	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4343	1.1827e-03	0.0000e+00
70	EMPTY	0.4443	0.4541	0.4492	9.9670e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4737	6.9754e-04	0.0000e+00
72	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5127	0.5078	9.9670e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5227	9.7615e-04	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5419	6.9754e-04	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5567	6.9754e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5765	1.1827e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6007	6.9754e-04	0.0000e+00
79	EMPTY	0.6201	0.6348	0.6250	1.7263e-03	0.0000e+00
80	PAN020136	36.7210	40.4594	38.6751	7.9146e-01	8.7536e-01
81	PAN050136	68.2558	70.5446	69.6135	4.4075e-01	1.6890e+00
82	PAN070136	46.7744	47.8425	47.3209	2.5748e-01	8.7801e-01
83	PAN080136	23.6102	24.3731	23.9776	1.8273e-01	8.7206e-01
84	PAN090136	23.9374	24.7766	24.2955	1.8766e-01	8.7212e-01
85	PAN100136	16.6777	17.5169	17.1729	1.7833e-01	8.7106e-01
86	PAN105136	10.5807	11.1911	10.9108	1.5210e-01	8.7043e-01
87	PAN110136	11.3232	12.4676	12.0394	2.2665e-01	8.7052e-01
88	PAN115136	12.6876	13.1453	12.9585	1.3402e-01	8.7060e-01
89	PAN120136	11.7531	12.2871	12.0520	1.3562e-01	8.7052e-01
90	PAN125136	14.3823	14.9164	14.7264	1.1562e-01	8.7078e-01
91	PAN130136	11.1001	11.4052	11.2573	9.3969e-02	8.7046e-01
92	PAN120048	19.5607	20.5526	20.0294	1.9822e-01	8.7144e-01
93	PAN130048	24.4934	25.6379	25.1225	2.6636e-01	8.7226e-01
94	PAN120224	18.5836	19.4992	19.2033	1.8468e-01	8.7132e-01
95	PAN130224	24.8706	25.7098	25.3548	1.8724e-01	8.7231e-01
96	PAN120312	22.2766	23.0395	22.6440	1.8667e-01	8.7184e-01
97	PAN130312	25.4017	26.1646	25.8439	1.7340e-01	8.7240e-01
98	PAB000136	37.0344	37.9042	37.4595	1.6689e-01	5.8751e-01
99	PAB100136	29.1618	29.4822	29.4000	5.9082e-02	5.8464e-01
100	PAB125136	26.9918	27.1749	27.0684	4.7081e-02	5.8393e-01

Test: Jul31_04

sum2

Date: Tue Jul 31 11:07:12 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	36.6395	37.3719	37.0954	2.1690e-01	7.5571e-01
102	PRV000001	24.3456	24.4677	24.4452	4.7758e-02	7.5249e-01
103	PSR000001	25.1321	25.2542	25.2168	5.6843e-02	7.5264e-01
104	PFM000001	61.0357	62.5921	61.6990	3.7494e-01	5.2325e-01
105	PAN000136	289.6063	300.1348	296.4354	2.5519e+00	4.9755e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0049	0.0146	0.0095	1.5467e-03	0.0000e+00
108	EMPTY	-10.0000	1.3672	-4.0986	3.7123e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0052	1.1827e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0021	2.4414e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0316	9.8483e-02	8.1000e-01
113	VPW000002	-0.2329	0.3530	0.0461	1.1276e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0372	1.1059e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0287	1.1014e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0097	1.1276e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0225	1.0836e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3517	1.1709e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.1233	1.3210e+00	8.1000e+00
120	IPW000003	-3.5250	2.3250	0.4148	1.2262e+00	8.1000e+00
121	IPW000004	-0.2441	0.2441	0.0548	2.4037e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0481	3.1451e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1236	3.7048e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.8549e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.4948e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0156	2.9867e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.1518e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0068	9.5812e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0033	7.9328e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0157	9.2715e-02	4.1000e+00
131	IHT000004	-0.0901	0.4958	0.0334	1.3037e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0128	1.0625e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0203	1.1348e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0089	8.5810e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0105	9.5812e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0042	6.8582e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0388	9.8153e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	-0.0019	8.3122e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0133	1.0640e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0103	8.4860e-02	4.1000e+00
141	IHT000014	-0.0639	0.1314	0.0398	9.8483e-02	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0044	4.7310e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0039	9.3931e-02	4.1000e+00
144	IHT000017	-0.4582	0.3230	-0.0078	2.2625e-01	4.1000e+00
145	IHT000018	-0.3117	0.6648	-0.0088	1.4950e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1367	1.0533e-01	4.1000e+00
147	IHT000020	-0.1052	0.0902	0.0304	9.0949e-02	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0478	1.0548e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0221	9.5132e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0166	7.9736e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0495	9.2715e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0170	9.2189e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0190	8.4477e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0007	8.3705e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0009	1.2504e-01	4.1000e+00

Test: Jul31_04

sum2

Date: Tue Jul 31 11:07:12 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0105	1.0378e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0075	1.0548e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0388	1.2001e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	-0.0012	9.1482e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0183	8.9148e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0068	9.2715e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0375	1.0836e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0217	9.6990e-02	4.1000e+00

Test: Jul31_04 dif Date: Tue Jul 31 11:07:12 1990 Page: 1

Velocity 1 = 0.040001 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.011200 (psi)

Tsat in = 0.045288 (deg F) Tsat out = 0.008408 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0412	0.0556
1	TRF000002	0.0084	0.0114
2	TFM000001	0.0060	0.0069
3	TIN000001	0.0136	0.0158
4	TRV000001	0.0112	0.0129
5	TSR000001	0.0218	0.0251
6	TAO020136	0.0487	0.0605
7	TAO050136	0.0399	0.0462
8	TAO070136	0.0133	0.0154
9	TAO080136	0.0119	0.0138
10	TAO090136	0.0546	0.0628
11	TAO100136	0.0372	0.0431
12	TAO105136	0.0649	0.0743
13	TAO110136	0.0062	0.0071
14	TAO115136	0.0181	0.0209
15	TAO120136	0.0490	0.0567
16	TAO125136	0.0122	0.0140
17	TAO130136	0.0198	0.0230
18	TAO120048	0.0347	0.0474
19	TAO130048	0.0458	0.0532
20	TAO120224	0.0074	0.0086
21	TAO130224	0.0320	0.0370
22	TAO120312	0.0216	0.0250
23	TAO130312	0.0373	0.0432
24	TRT020000	0.0212	0.0244
25	TRT070000	0.0266	0.0307
26	TRT100000	0.0218	0.0251
27	TRT120000	0.0487	0.0562
28	TRT125000	0.0066	0.0076
29	TRT130000	0.0042	0.0048
30	EMPTY	0.0045	0.0114
31	TAF050136	0.0028	0.0032
32	TAF070136	0.0095	0.0109
33	TAF080136	0.0102	0.0118
34	TAF090136	0.0644	0.0870
35	TAF100136	0.0152	0.0175
36	TAF105136	0.0149	0.0172
37	TAF110136	0.0457	0.0529
38	TAF115136	0.0223	0.0256
39	TAF120136	0.0535	0.0616
40	TAF125136	0.0634	0.0730
41	TAF130136	0.0043	0.0050
42	TAF120048	0.0497	0.0571
43	TAF130048	0.0689	0.0795
44	TAF120224	0.0245	0.0283
45	TAF130224	0.0227	0.0263

#	Name	Abs Diff	%Diff
46	EMPTY	0.0581	0.1525
47	EMPTY	0.0430	0.1097
48	TAI130048	0.1064	0.1224
49	TAI130136	0.0148	0.0172
50	TAI130224	0.0196	0.0224
51	TAI130312	0.0360	0.0416
52	TRR130000	0.0192	0.0224
53	TSI000001	0.0083	0.0102
54	TSI000002	0.0684	0.0901
55	TSO000001	0.0685	0.0918
56	TSO000002	0.0054	0.0072
57	TAF020136	0.0256	0.0298
58	TAF120312	0.0927	0.1073
59	TAF130312	0.0237	0.0275
60	EMPTY	0.0002	0.0418
61	EMPTY	0.0001	0.0203
62	EMPTY	0.0002	0.0395
63	EMPTY	0.0001	0.0191
64	EMPTY	0.0003	0.0876
65	EMPTY	0.0008	0.2188
66	EMPTY	0.0001	0.0263
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0004	0.0920
70	EMPTY	0.0002	0.0445
71	EMPTY	0.0002	0.0422
72	EMPTY	0.0002	0.0410
73	EMPTY	0.0001	0.0197
74	EMPTY	0.0011	0.2100
75	EMPTY	0.0002	0.0369
76	EMPTY	0.0002	0.0359
77	EMPTY	0.0011	0.1904
78	EMPTY	0.0001	0.0167
79	EMPTY	0.0001	0.0160
80	PAN020136	0.4633	1.2124
81	PAN050136	0.0247	0.0355
82	PAN070136	0.0974	0.2054
83	PAN080136	0.0287	0.1198
84	PAN090136	0.0163	0.0671
85	PAN100136	0.0190	0.1105
86	PAN105136	0.0254	0.2323
87	PAN110136	0.0192	0.1592
88	PAN115136	0.0251	0.1933
89	PAN120136	0.0304	0.2529
90	PAN125136	0.0114	0.0773
91	PAN130136	0.0167	0.1481
92	PAN120048	0.0333	0.1660
93	PAN130048	0.0606	0.2406
94	PAN120224	0.0044	0.0229
95	PAN130224	0.0315	0.1241
96	PAN120312	0.0012	0.0053
97	PAN130312	0.0293	0.1132
98	PAB000136	0.0286	0.0764
99	PAB100136	0.0044	0.0150
100	PAB125136	0.0040	0.0148

Test: Jul31_04

dif

Date: Tue Jul 31 11:07:12 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0446	0.1201
102	PRV000001	0.0020	0.0082
103	PSR000001	0.0154	0.0610
104	PFM000001	0.2476	0.4029
105	PAN000136	0.3105	0.1048
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.1505
108	EMPTY	0.5108	14.2371
109	EMPTY	0.0003	6.1224
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	12.5000
112	VPW000001	0.0177	35.9026
113	VPW000002	0.0251	119.5238
114	VPW000003	0.0416	945.4546
115	VPW000004	0.0082	22.2222
116	VPW000005	0.0279	74.2021
117	VPW000006	0.0573	71.8045
118	IPW000001	0.3171	916.4741
119	IPW000002	0.3289	159.9708
120	IPW000003	0.1178	39.6633
121	IPW000004	0.0721	56.8164
122	IPW000005	0.0200	71.1744
123	IPW000006	0.1112	896.7741
124	EMPTY	0.0010	4.9261
125	EMPTY	0.0009	6.2069
126	EMPTY	0.0002	1.2987
127	EMPTY	0.0005	3.0303
128	IHT000001	0.0011	19.2982
129	IHT000002	0.0076	176.7442
130	IHT000003	0.0041	35.3448
131	IHT000004	0.0415	512.3456
132	IHT000005	0.0060	31.9149
133	IHT000006	0.0099	32.7815
134	IHT000007	0.0083	1383.3333
135	IHT000008	0.0128	556.5217
136	IHT000009	0.0194	82.2034
137	IHT000010	0.0095	32.4232
138	IHT000011	0.0267	107.6613
139	IHT000012	0.0020	17.6991
140	IHT000013	0.0244	173.0496
141	IHT000014	0.0096	19.4332
142	IHT000015	0.0119	158.6667
143	IHT000016	0.0338	89.6552
144	IHT000017	0.0027	52.9412
145	IHT000018	0.0100	53.1915
146	IHT000019	0.0149	12.2332
147	IHT000020	0.0207	40.5088
148	IHT000021	0.0023	5.0549
149	IHT000022	0.0141	176.2500
150	IHT000023	0.0034	17.0000
151	IHT000024	0.0119	31.6489
152	IHT000025	0.0228	393.1035
153	IHT000026	0.0118	163.8889
154	IHT000027	0.0036	83.7209
155	IHT000028	0.0036	80.0000

Test: Jul31_04 dif Date: Tue Jul 31 11:07:12 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0049	87.5000
157	IHT000030	0.0039	34.2105
158	IHT000031	0.0017	4.5822
159	IHT000032	0.0030	166.6667
160	IHT000033	0.0106	36.6782
161	IHT000034	0.0120	63.8298
162	IHT000035	0.0013	3.5912
163	IHT000036	0.0102	88.6957

Test: Jul31_05

suml

Date: Tue Jul 31 11:10:20 1990

Page: 1

Velocity 1 = 17.9603 (ft/sec) (+/- 1.7460 %)
Velocity 2 = 13.4251 (ft/sec) (+/- 1.7032 %)
Pressure drop = 7.8481 (psi)
Tsats in = 258.1332 (deg F) Tsats out = 243.5500 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5204.7490 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6401.2686 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1594	1.8420e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9854	1.4862e-01	1.9000e+00
2	TFM000001	86.1075	86.9491	86.5728	2.0829e-01	1.9002e+00
3	TIN000001	85.4192	85.9471	85.7168	1.4400e-01	1.9002e+00
4	TRV000001	85.7956	86.7406	86.2765	2.1206e-01	1.9002e+00
5	TSR000001	86.3209	86.9502	86.5882	1.5768e-01	1.9002e+00
6	TAO020136	80.0536	80.9005	80.4071	2.4357e-01	1.9001e+00
7	TAO050136	85.7641	86.4990	86.1868	1.6229e-01	1.9002e+00
8	TAO070136	85.8741	86.8239	86.3114	2.1107e-01	1.9002e+00
9	TAO080136	85.7716	86.5056	86.1094	1.6350e-01	1.9002e+00
10	TAO090136	86.2327	87.0743	86.7355	2.0940e-01	1.9002e+00
11	TAO100136	85.6907	86.4272	86.0419	1.7740e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	87.0785	2.1285e-01	1.9002e+00
13	TAO110136	86.0740	86.9122	86.4668	1.8806e-01	1.9002e+00
14	TAO115136	86.1196	87.0670	86.6228	2.3624e-01	1.9002e+00
15	TAO120136	85.8438	86.3711	86.1538	1.8111e-01	1.9002e+00
16	TAO125136	86.5890	87.0110	86.8525	1.3826e-01	1.9002e+00
17	TAO130136	85.7231	86.4540	86.0552	1.8121e-01	1.9002e+00
18	TAO120048	73.0711	73.8156	73.4437	1.5233e-01	1.9000e+00
19	TAO130048	85.6787	86.3104	85.9885	1.3182e-01	1.9002e+00
20	TAO120224	85.9940	86.6262	86.2702	1.5182e-01	1.9002e+00
21	TAO130224	86.0650	86.6953	86.2829	1.6186e-01	1.9002e+00
22	TAO120312	85.8685	86.6061	86.2960	1.6540e-01	1.9002e+00
23	TAO130312	85.6414	86.4825	86.1107	1.5511e-01	1.9002e+00
24	TRT020000	86.2450	86.9837	86.6903	2.0789e-01	1.9002e+00
25	TRT070000	86.1226	86.7562	86.4709	1.7620e-01	1.9002e+00
26	TRT100000	86.4036	87.1395	86.7213	1.8795e-01	1.9002e+00
27	TRT120000	86.2069	86.8380	86.4955	1.6018e-01	1.9002e+00
28	TRT125000	86.0949	86.8290	86.5590	1.7477e-01	1.9002e+00
29	TRT130000	86.0104	86.6423	86.3076	1.4058e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5827	2.4650e-01	1.9011e+00
31	TAF050136	86.3538	87.0887	86.6965	1.5715e-01	1.9002e+00
32	TAF070136	86.6610	87.5005	87.0373	2.2393e-01	1.9002e+00
33	TAF080136	86.1126	87.0544	86.5922	1.7976e-01	1.9002e+00
34	TAF090136	73.4107	74.4723	73.9653	2.6537e-01	1.9000e+00
35	TAF100136	86.0548	86.8982	86.4828	1.8119e-01	1.9002e+00
36	TAF105136	85.8660	87.0163	86.4290	2.9780e-01	1.9002e+00
37	TAF110136	85.9973	86.6287	86.2819	1.7026e-01	1.9002e+00
38	TAF115136	86.3850	87.2248	86.7991	1.9486e-01	1.9002e+00
39	TAF120136	86.4275	86.8495	86.6911	1.2464e-01	1.9002e+00
40	TAF125136	86.2005	87.2477	86.7267	2.8049e-01	1.9002e+00
41	TAF130136	85.9774	86.8187	86.5009	1.7827e-01	1.9002e+00
42	TAF120048	86.5504	87.2902	86.8950	1.9875e-01	1.9002e+00
43	TAF130048	86.1567	86.7876	86.4823	1.7296e-01	1.9002e+00
44	TAF120224	86.1473	86.8831	86.5407	1.8846e-01	1.9002e+00
45	TAF130224	85.7701	86.4036	86.0426	1.7326e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.1032	2.1390e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2153	1.0630e-01	1.9010e+00
48	TAI130048	86.1479	87.4090	86.7513	3.1417e-01	1.9002e+00
49	TAI130136	85.6608	86.5014	86.0753	2.0174e-01	1.9002e+00
50	TAI130224	86.5988	87.7574	87.1106	2.6402e-01	1.9002e+00
51	TAI130312	85.9663	86.8092	86.3730	2.1691e-01	1.9002e+00
52	TRR130000	84.8278	85.8792	85.4901	2.3466e-01	1.9002e+00
53	TSI000001	80.8139	81.6587	81.2260	1.9104e-01	1.9001e+00
54	TSI000002	75.2635	76.2167	75.7906	2.5172e-01	1.9000e+00
55	TSO000001	74.1219	75.1869	74.6908	2.0370e-01	1.9000e+00
56	TSO000002	74.9907	75.8403	75.4302	2.0798e-01	1.9000e+00
57	TAF020136	85.6264	86.3671	85.9038	1.8727e-01	1.9002e+00
58	TAF120312	85.6989	86.7508	86.1559	2.4736e-01	1.9002e+00
59	TAF130312	85.5097	86.2465	85.8697	1.7291e-01	1.9002e+00
60	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4885	9.6655e-04	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5020	1.9730e-03	0.0000e+00
63	EMPTY	0.5127	0.5225	0.5172	1.6624e-03	0.0000e+00
64	EMPTY	0.3320	0.3516	0.3393	3.1567e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3767	1.7115e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3957	9.6655e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4104	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4395	0.4296	1.8429e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5186	1.9730e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5373	9.6655e-04	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5520	9.6655e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5718	1.4797e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5956	6.9053e-04	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6183	2.3941e-03	0.0000e+00
80	PAN020136	26.4976	29.4731	27.9610	6.6933e-01	8.7280e-01
81	PAN050136	50.5556	51.7763	51.2086	3.2630e-01	1.6849e+00
82	PAN070136	34.3385	35.2540	34.8191	2.4286e-01	8.7434e-01
83	PAN080136	17.2015	17.9644	17.6302	1.6807e-01	8.7112e-01
84	PAN090136	16.6895	17.9865	17.4753	2.4335e-01	8.7110e-01
85	PAN100136	11.7949	13.0156	12.1779	2.1716e-01	8.7053e-01
86	PAN105136	7.6815	8.0630	7.8814	9.3618e-02	8.7022e-01
87	PAN110136	8.4240	9.1106	8.8146	1.8409e-01	8.7028e-01
88	PAN115136	9.4832	9.9410	9.7289	1.1357e-01	8.7034e-01
89	PAN120136	8.7013	9.0065	8.8615	7.8972e-02	8.7028e-01
90	PAN125136	10.9491	11.4068	11.1261	1.1580e-01	8.7044e-01
91	PAN130136	7.9720	8.4298	8.1627	8.8880e-02	8.7024e-01
92	PAN120048	13.9913	14.9068	14.3926	1.9363e-01	8.7074e-01
93	PAN130048	17.9322	18.9240	18.4494	2.3843e-01	8.7122e-01
94	PAN120224	13.5482	14.0060	13.7787	1.1482e-01	8.7068e-01
95	PAN130224	18.7670	19.5300	19.0692	1.6236e-01	8.7131e-01
96	PAN120312	16.1730	16.7834	16.5225	1.3178e-01	8.7098e-01
97	PAN130312	18.7641	19.3745	19.0861	1.2923e-01	8.7131e-01
98	PAB000136	33.9674	34.3794	34.2183	9.4874e-02	5.8627e-01
99	PAB100136	28.2463	28.4751	28.3607	5.4908e-02	5.8432e-01
100	PAB125136	26.5341	26.7172	26.6137	4.6065e-02	5.8380e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	33.7098	34.3202	34.0199	1.7300e-01	7.5481e-01
102	PRV000001	24.3456	24.4677	24.4579	3.3453e-02	7.5249e-01
103	PSR000001	25.1321	25.3763	25.2102	6.4121e-02	7.5264e-01
104	PFM000001	48.6761	50.0494	49.5971	2.9733e-01	5.1514e-01
105	PAN000136	212.2442	221.8572	217.2796	1.9597e+00	4.9499e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0087	2.0432e-03	0.0000e+00
108	EMPTY	-10.0000	0.0098	-3.4773	3.2070e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
112	VPW000001	-0.2554	0.3305	0.0141	1.2409e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0327	9.4702e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0073	1.0617e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	-0.0174	1.2283e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0015	1.0440e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0876	1.0885e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4250	1.0701e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.1666	1.1853e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6090	1.2232e+00	8.1000e+00
121	IPW000004	-1.2207	0.7324	0.1660	3.3249e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1062	3.3245e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1003	4.1397e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.0628e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3008e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.5648e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.2359e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0161	9.6735e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0119	8.6810e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0271	1.1161e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0461	1.0992e-01	4.1000e+00
133	IHT000006	-0.3193	0.2667	0.0245	1.0106e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0240	8.8233e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0368	9.6655e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	9.2456e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0097	9.0412e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0143	5.9189e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0004	9.7935e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0054	9.0756e-02	4.1000e+00
141	IHT000014	-0.0639	0.1314	0.0377	9.8569e-02	4.1000e+00
142	IHT000015	-0.3981	0.1878	-0.0153	8.7880e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0182	9.7377e-02	4.1000e+00
144	IHT000017	-0.6536	0.7136	-0.0090	2.8794e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0110	1.0595e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1453	9.9512e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0237	1.0885e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0200	9.9512e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0219	7.7324e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0254	8.4997e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0084	8.4997e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0083	8.1347e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0072	1.3646e-01	4.1000e+00

Test: Jul31_05

sum1

Date: Tue Jul 31 11:10:20 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0095	1.0297e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0270	1.1334e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0410	1.1975e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0213	1.0145e-01	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0132	9.5112e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	1.0799e-01	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0245	1.1027e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0194	1.0507e-01	4.1000e+00

Test: Jul31_05

sum2

Date: Tue Jul 31 11:10:20 1990

Page: 1

Velocity 1 = 17.9784 (ft/sec) (+/- 1.7457 %)
Velocity 2 = 13.4251 (ft/sec) (+/- 1.7032 %)
Pressure drop = 7.8448 (psi)
Tsat in = 258.1019 (deg F) Tsat out = 243.5134 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2951.4712 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 8642.7656 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.6929	74.2052	2.0892e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9724	1.1799e-01	1.9000e+00
2	TFM000001	86.0025	86.9496	86.5631	1.9734e-01	1.9002e+00
3	TIN000001	85.4192	86.0522	85.6972	1.7972e-01	1.9002e+00
4	TRV000001	85.7962	86.6370	86.2737	1.9886e-01	1.9002e+00
5	TSR000001	86.2158	87.0558	86.6237	1.5853e-01	1.9002e+00
6	TAO020136	79.8413	81.0066	80.4835	2.7632e-01	1.9001e+00
7	TAO050136	85.7641	86.5012	86.1636	1.9197e-01	1.9002e+00
8	TAO070136	85.7690	86.7190	86.2988	1.7434e-01	1.9002e+00
9	TAO080136	85.8750	86.4028	86.1079	1.5781e-01	1.9002e+00
10	TAO090136	86.3379	87.1793	86.7309	2.1652e-01	1.9002e+00
11	TAO100136	85.5850	86.3229	86.0407	1.9267e-01	1.9002e+00
12	TAO105136	86.5079	87.4558	87.0902	2.2352e-01	1.9002e+00
13	TAO110136	86.0740	86.8100	86.4729	1.7142e-01	1.9002e+00
14	TAO115136	86.1196	87.0675	86.6546	2.3040e-01	1.9002e+00
15	TAO120136	85.8438	86.4768	86.1645	1.7601e-01	1.9002e+00
16	TAO125136	86.5900	87.2207	86.8945	1.5964e-01	1.9002e+00
17	TAO130136	85.7226	86.4540	86.0877	1.7777e-01	1.9002e+00
18	TAO120048	73.0716	73.7106	73.4730	1.6874e-01	1.9000e+00
19	TAO130048	85.6787	86.3104	85.9501	1.5649e-01	1.9002e+00
20	TAO120224	85.9940	86.6262	86.2695	1.5779e-01	1.9002e+00
21	TAO130224	85.9619	86.9034	86.2981	1.9112e-01	1.9002e+00
22	TAO120312	85.7628	86.6061	86.3263	1.9547e-01	1.9002e+00
23	TAO130312	85.7466	86.4830	86.1268	1.6063e-01	1.9002e+00
24	TRT020000	86.3507	87.0887	86.6951	1.7979e-01	1.9002e+00
25	TRT070000	86.1218	86.8613	86.4758	1.7049e-01	1.9002e+00
26	TRT100000	86.2985	87.2451	86.8092	2.1564e-01	1.9002e+00
27	TRT120000	86.1018	86.8394	86.5016	1.8482e-01	1.9002e+00
28	TRT125000	86.0949	86.9346	86.5026	1.9471e-01	1.9002e+00
29	TRT130000	86.0104	86.6423	86.3203	1.6565e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5682	2.1650e-01	1.9011e+00
31	TAF050136	86.3538	87.1948	86.7079	1.9629e-01	1.9002e+00
32	TAF070136	86.5577	87.5005	87.0259	2.1616e-01	1.9002e+00
33	TAF080136	86.2160	86.9516	86.5979	1.8391e-01	1.9002e+00
34	TAF090136	73.3045	74.5789	74.0589	3.2659e-01	1.9000e+00
35	TAF100136	86.1605	86.8982	86.4808	1.9596e-01	1.9002e+00
36	TAF105136	85.8665	86.8084	86.3684	2.6157e-01	1.9002e+00
37	TAF110136	85.7880	86.6287	86.2558	1.6646e-01	1.9002e+00
38	TAF115136	86.3850	87.1209	86.8291	1.9924e-01	1.9002e+00
39	TAF120136	86.2183	86.9551	86.6475	1.6739e-01	1.9002e+00
40	TAF125136	86.0977	87.2477	86.7057	2.8679e-01	1.9002e+00
41	TAF130136	86.1882	86.8187	86.5011	1.6840e-01	1.9002e+00
42	TAF120048	86.4453	87.2902	86.8761	2.2288e-01	1.9002e+00
43	TAF130048	85.8417	86.8932	86.5469	2.0255e-01	1.9002e+00
44	TAF120224	86.2530	86.9887	86.5702	1.7623e-01	1.9002e+00
45	TAF130224	85.7701	86.4039	86.0482	1.6079e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0913	1.7509e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1933	1.3242e-01	1.9010e+00
48	TAI130048	86.2530	87.4101	86.8194	2.9565e-01	1.9002e+00
49	TAI130136	85.7660	86.5014	86.0732	1.7278e-01	1.9002e+00
50	TAI130224	86.5983	87.6518	87.1856	2.9087e-01	1.9002e+00
51	TAI130312	85.9663	86.8092	86.3750	2.0474e-01	1.9002e+00
52	TRR130000	84.8278	85.8792	85.4160	2.5648e-01	1.9002e+00
53	TSI000001	80.9195	81.6587	81.2367	1.9644e-01	1.9001e+00
54	TSI000002	75.2630	76.5345	75.8662	2.9239e-01	1.9000e+00
55	TSO000001	74.3348	75.0808	74.7177	2.0503e-01	1.9000e+00
56	TSO000002	74.9902	75.9463	75.4934	2.0995e-01	1.9000e+00
57	TAF020136	85.5215	86.3671	85.9095	1.8854e-01	1.9002e+00
58	TAF120312	85.6989	86.5413	86.1331	2.5998e-01	1.9002e+00
59	TAF130312	85.4045	86.2460	85.8515	1.7658e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4735	1.5727e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4882	1.2165e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5017	2.1215e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5172	1.3508e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3393	2.4662e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3612	6.9754e-04	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3768	1.8234e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3958	1.1827e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4106	1.3508e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4296	6.9754e-04	0.0000e+00
70	EMPTY	0.4395	0.4492	0.4449	1.8997e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4689	9.7615e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4835	6.9754e-04	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5029	9.9670e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5212	2.1781e-03	0.0000e+00
75	EMPTY	0.5322	0.5420	0.5379	2.0781e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5521	1.1827e-03	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5730	2.3483e-03	0.0000e+00
78	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6200	6.9754e-04	0.0000e+00
80	PAN020136	26.4976	29.8546	27.6716	7.8670e-01	8.7275e-01
81	PAN050136	49.9452	51.9288	51.1753	3.9078e-01	1.6849e+00
82	PAN070136	33.8807	35.3303	34.8897	2.8769e-01	8.7436e-01
83	PAN080136	17.2778	17.8881	17.6188	1.2757e-01	8.7111e-01
84	PAN090136	16.8421	17.9102	17.3746	2.3334e-01	8.7108e-01
85	PAN100136	11.9475	12.4053	12.1826	1.0658e-01	8.7053e-01
86	PAN105136	7.6815	8.1393	7.8923	1.0707e-01	8.7022e-01
87	PAN110136	8.2714	9.3395	8.8148	1.7800e-01	8.7028e-01
88	PAN115136	9.4832	10.0936	9.7728	1.2457e-01	8.7034e-01
89	PAN120136	8.6250	9.0065	8.8430	1.1012e-01	8.7028e-01
90	PAN125136	10.8728	11.4068	11.1748	1.2744e-01	8.7045e-01
91	PAN130136	7.9720	8.3535	8.1588	9.0890e-02	8.7024e-01
92	PAN120048	13.9150	14.7542	14.3759	2.0717e-01	8.7074e-01
93	PAN130048	17.5507	19.0003	18.4398	2.9816e-01	8.7122e-01
94	PAN120224	13.3957	14.0060	13.7989	1.4102e-01	8.7068e-01
95	PAN130224	18.6908	19.3774	19.1080	1.8034e-01	8.7131e-01
96	PAN120312	15.9442	16.7834	16.4907	1.6285e-01	8.7098e-01
97	PAN130312	18.7641	19.5271	19.1129	1.4774e-01	8.7131e-01
98	PAB000136	33.7385	34.4710	34.2000	1.3143e-01	5.8627e-01
99	PAB100136	28.2463	28.4751	28.3434	5.0000e-02	5.8431e-01
100	PAB125136	26.5341	26.6714	26.5967	4.4513e-02	5.8380e-01

Test: Jul31_05

sum2

Date: Tue Jul 31 11:10:20 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	33.4657	34.3202	33.9340	1.7855e-01	7.5478e-01
102	PRV000001	24.3456	24.4677	24.4577	3.3770e-02	7.5249e-01
103	PSR000001	25.1321	25.3763	25.1645	5.9882e-02	7.5263e-01
104	PFM000001	49.2254	50.3241	49.6981	2.5442e-01	5.1521e-01
105	PAN000136	210.8709	222.7728	217.1861	2.0873e+00	4.9499e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	-0.0049	0.0098	0.0082	2.8866e-03	0.0000e+00
108	EMPTY	-10.0000	1.9531	-4.1410	3.9436e+00	0.0000e+00
109	EMPTY	-0.0049	0.0098	0.0048	1.5727e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0015	2.2737e-03	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0236	1.0548e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0063	9.1482e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0332	1.1838e-01	8.1000e-01
115	VPW000004	-0.0526	0.3381	0.0112	1.0076e-01	8.1000e-01
116	VPW000005	-0.3531	0.2329	0.0136	1.1714e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0384	1.0486e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.1525	1.1612e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.4021	1.3798e+00	8.1000e+00
120	IPW000003	-1.5750	4.2750	0.4944	1.1542e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.0448	2.6216e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0879	3.2497e-01	2.0000e+00
123	IPW000006	-1.0423	0.9109	0.0937	3.5080e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5510e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.8548e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.3574e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0331	9.2715e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0007	7.3601e-02	4.1000e+00
130	IHT000003	-0.0038	0.1916	0.0082	4.7310e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0255	1.1219e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0327	9.7656e-02	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0156	8.9148e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0248	1.0533e-01	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0384	9.6990e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	7.4477e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0130	7.6412e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0021	8.6187e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	-0.0146	1.0315e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0222	1.0701e-01	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0198	1.1276e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0115	4.8662e-02	4.1000e+00
143	IHT000016	-0.2592	0.1315	-0.0041	9.9303e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0001	2.8625e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0088	9.8153e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1128	1.0076e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0224	1.1658e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0278	1.1348e-01	4.1000e+00
149	IHT000022	-0.0939	0.2967	0.0058	1.0640e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0126	7.5986e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0575	8.2141e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0050	8.2338e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0190	7.4477e-02	4.1000e+00
154	IHT000027	-0.2066	0.3793	0.0246	1.0299e-01	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0009	9.6318e-02	4.1000e+00

Test: Jul31_05

sum2

Date: Tue Jul 31 11:10:20 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0094	1.0044e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	-0.0244	9.2189e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0388	1.0594e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0067	9.5812e-02	4.1000e+00
160	IHT000033	-0.2329	0.3531	-0.0017	9.4962e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0108	1.1248e-01	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0216	1.0188e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0017	1.0640e-01	4.1000e+00

Test: Jul31_05 dif Date: Tue Jul 31 11:10:20 1990 Page: 1

Velocity 1 = 0.018099 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.003300 (psi)

Tsat in = 0.031311 (deg F) Tsat out = 0.036606 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0458	0.0618
1	TRF000002	0.0130	0.0176
2	TFM000001	0.0097	0.0112
3	TIN000001	0.0196	0.0229
4	TRV000001	0.0028	0.0032
5	TSR000001	0.0355	0.0410
6	TAO020136	0.0764	0.0950
7	TAO050136	0.0232	0.0269
8	TAO070136	0.0126	0.0146
9	TAO080136	0.0015	0.0017
10	TAO090136	0.0046	0.0053
11	TAO100136	0.0012	0.0014
12	TAO105136	0.0117	0.0134
13	TAO110136	0.0061	0.0071
14	TAO115136	0.0318	0.0367
15	TAO120136	0.0107	0.0124
16	TAO125136	0.0420	0.0484
17	TAO130136	0.0325	0.0378
18	TAO120048	0.0293	0.0399
19	TAO130048	0.0384	0.0447
20	TAO120224	0.0007	0.0008
21	TAO130224	0.0152	0.0176
22	TAO120312	0.0303	0.0351
23	TAO130312	0.0161	0.0187
24	TRT020000	0.0048	0.0055
25	TRT070000	0.0049	0.0057
26	TRT100000	0.0879	0.1014
27	TRT120000	0.0061	0.0071
28	TRT125000	0.0564	0.0652
29	TRT130000	0.0127	0.0147
30	EMPTY	0.0145	0.0366
31	TAF050136	0.0114	0.0131
32	TAF070136	0.0114	0.0131
33	TAF080136	0.0057	0.0066
34	TAF090136	0.0936	0.1265
35	TAF100136	0.0020	0.0023
36	TAF105136	0.0606	0.0701
37	TAF110136	0.0261	0.0302
38	TAF115136	0.0300	0.0346
39	TAF120136	0.0436	0.0503
40	TAF125136	0.0210	0.0242
41	TAF130136	0.0002	0.0002
42	TAF120048	0.0189	0.0217
43	TAF130048	0.0646	0.0747
44	TAF120224	0.0295	0.0341
45	TAF130224	0.0056	0.0065

#	Name	Abs Diff	%Diff
46	EMPTY	0.0119	0.0312
47	EMPTY	0.0220	0.0561
48	TAI130048	0.0681	0.0785
49	TAI130136	0.0021	0.0024
50	TAI130224	0.0750	0.0861
51	TAI130312	0.0020	0.0023
52	TRR130000	0.0741	0.0867
53	TSI000001	0.0107	0.0132
54	TSI000002	0.0756	0.0997
55	TSO000001	0.0269	0.0360
56	TSO000002	0.0632	0.0838
57	TAF020136	0.0057	0.0066
58	TAF120312	0.0228	0.0265
59	TAF130312	0.0182	0.0212
60	EMPTY	0.0001	0.0211
61	EMPTY	0.0003	0.0614
62	EMPTY	0.0003	0.0598
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0002	0.0554
66	EMPTY	0.0001	0.0265
67	EMPTY	0.0001	0.0253
68	EMPTY	0.0002	0.0487
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0004	0.0900
71	EMPTY	0.0002	0.0427
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0026	0.5014
75	EMPTY	0.0006	0.1117
76	EMPTY	0.0001	0.0181
77	EMPTY	0.0012	0.2099
78	EMPTY	0.0001	0.0168
79	EMPTY	0.0017	0.2749
80	PAN020136	0.2894	1.0350
81	PAN050136	0.0333	0.0650
82	PAN070136	0.0706	0.2028
83	PAN080136	0.0114	0.0647
84	PAN090136	0.1007	0.5762
85	PAN100136	0.0047	0.0386
86	PAN105136	0.0119	0.1510
87	PAN110136	0.0002	0.0023
88	PAN115136	0.0439	0.4512
89	PAN120136	0.0185	0.2088
90	PAN125136	0.0487	0.4377
91	PAN130136	0.0039	0.0478
92	PAN120048	0.0167	0.1160
93	PAN130048	0.0096	0.0520
94	PAN120224	0.0202	0.1466
95	PAN130224	0.0388	0.2035
96	PAN120312	0.0318	0.1925
97	PAN130312	0.0268	0.1404
98	PAB000136	0.0183	0.0535
99	PAB100136	0.0173	0.0610
100	PAB125136	0.0170	0.0639

Test: Jul31_05

dif

Date: Tue Jul 31 11:10:20 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0859	0.2525
102	PRV000001	0.0002	0.0008
103	PSR000001	0.0457	0.1813
104	PFM000001	0.1010	0.2036
105	PAN000136	0.0935	0.0430
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0005	5.7471
108	EMPTY	0.6637	19.0866
109	EMPTY	0.0002	4.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	6.2500
112	VPW000001	0.0095	67.3759
113	VPW000002	0.0264	80.7339
114	VPW000003	0.0259	354.7945
115	VPW000004	0.0286	164.3678
116	VPW000005	0.0151	1006.6667
117	VPW000006	0.0492	56.1644
118	IPW000001	0.2725	64.1176
119	IPW000002	0.5687	341.3565
120	IPW000003	0.1146	18.8177
121	IPW000004	0.1212	73.0120
122	IPW000005	0.0183	17.2316
123	IPW000006	0.0066	6.5803
124	EMPTY	0.0006	2.9851
125	EMPTY	0.0001	0.7634
126	EMPTY	0.0003	1.8293
127	EMPTY	0.0010	6.0976
128	IHT000001	0.0193	139.8551
129	IHT000002	0.0154	95.6522
130	IHT000003	0.0037	31.0924
131	IHT000004	0.0016	5.9041
132	IHT000005	0.0134	29.0673
133	IHT000006	0.0089	36.3265
134	IHT000007	0.0008	3.3333
135	IHT000008	0.0016	4.3478
136	IHT000009	0.0000	0.0000
137	IHT000010	0.0227	234.0206
138	IHT000011	0.0164	114.6853
139	IHT000012	0.0142	3550.0000
140	IHT000013	0.0168	311.1111
141	IHT000014	0.0179	47.4801
142	IHT000015	0.0038	24.8366
143	IHT000016	0.0223	122.5275
144	IHT000017	0.0091	101.1111
145	IHT000018	0.0022	20.0000
146	IHT000019	0.0325	22.3675
147	IHT000020	0.0013	5.4852
148	IHT000021	0.0021	7.0234
149	IHT000022	0.0177	148.7395
150	IHT000023	0.0074	37.0000
151	IHT000024	0.0356	162.5571
152	IHT000025	0.0204	80.3150
153	IHT000026	0.0274	326.1905
154	IHT000027	0.0163	196.3855
155	IHT000028	0.0081	112.5000

Test: Jul31_05 dif Date: Tue Jul 31 11:10:20 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0189	198.9474
157	IHT000030	0.0514	190.3704
158	IHT000031	0.0022	5.3659
159	IHT000032	0.0146	68.5446
160	IHT000033	0.0149	112.8788
161	IHT000034	0.0041	27.5168
162	IHT000035	0.0029	11.8367
163	IHT000036	0.0177	91.2371

Velocity 1 = 15.9887 (ft/sec) (+/- 1.7889 %)
Velocity 2 = 13.4250 (ft/sec) (+/- 1.7032 %)
Pressure drop = 5.3144 (psi)
Tsats in = 252.9817 (deg F) Tsats out = 242.5725 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4434.4668 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3431.8284 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1338	1.7188e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9727	1.3843e-01	1.9000e+00
2	TFM000001	86.0030	87.0540	86.4908	1.8731e-01	1.9002e+00
3	TIN000001	85.4192	85.8419	85.6178	1.2723e-01	1.9002e+00
4	TRV000001	85.7962	86.5313	86.2073	1.7449e-01	1.9002e+00
5	TSR000001	86.1116	86.6379	86.4018	1.3342e-01	1.9002e+00
6	TAO020136	79.8413	80.7949	80.3923	2.3045e-01	1.9001e+00
7	TAO050136	85.6606	86.3955	86.0758	1.5575e-01	1.9002e+00
8	TAO070136	85.8741	86.6134	86.2206	1.9187e-01	1.9002e+00
9	TAO080136	85.5619	86.2972	85.9942	1.5528e-01	1.9002e+00
10	TAO090136	86.3379	87.0743	86.6620	1.7086e-01	1.9002e+00
11	TAO100136	85.6902	86.2173	85.9683	1.4696e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	86.9753	1.8442e-01	1.9002e+00
13	TAO110136	85.9713	86.8095	86.3687	1.7056e-01	1.9002e+00
14	TAO115136	86.0141	86.8571	86.5365	2.3495e-01	1.9002e+00
15	TAO120136	85.8438	86.3706	86.0423	1.4058e-01	1.9002e+00
16	TAO125136	86.4843	87.2207	86.7790	1.5023e-01	1.9002e+00
17	TAO130136	85.7226	86.2469	85.9658	1.5719e-01	1.9002e+00
18	TAO120048	73.0711	73.9223	73.4500	1.5673e-01	1.9000e+00
19	TAO130048	85.5743	86.3099	85.8564	1.6510e-01	1.9002e+00
20	TAO120224	85.8890	86.7313	86.1966	1.9113e-01	1.9002e+00
21	TAO130224	85.9619	86.5923	86.2181	1.7343e-01	1.9002e+00
22	TAO120312	85.8679	86.6061	86.2265	1.7163e-01	1.9002e+00
23	TAO130312	85.7466	86.3785	86.0581	1.4569e-01	1.9002e+00
24	TRT020000	86.1403	87.0887	86.6123	2.0785e-01	1.9002e+00
25	TRT070000	86.0166	86.7557	86.4138	1.5167e-01	1.9002e+00
26	TRT100000	86.2997	87.1389	86.7023	1.7783e-01	1.9002e+00
27	TRT120000	86.2069	86.7337	86.4178	1.4417e-01	1.9002e+00
28	TRT125000	85.9917	86.8309	86.4189	1.8194e-01	1.9002e+00
29	TRT130000	85.9058	86.5377	86.2383	1.5377e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2440e-01	1.9011e+00
31	TAF050136	86.3538	86.9851	86.6356	1.4767e-01	1.9002e+00
32	TAF070136	86.4539	87.2912	86.9180	1.7975e-01	1.9002e+00
33	TAF080136	86.3211	86.8465	86.5274	1.4979e-01	1.9002e+00
34	TAF090136	73.4113	74.5789	74.0097	2.6496e-01	1.9000e+00
35	TAF100136	86.0548	86.7927	86.3921	1.6354e-01	1.9002e+00
36	TAF105136	85.8660	86.7028	86.2766	2.3503e-01	1.9002e+00
37	TAF110136	85.7895	86.9429	86.1792	1.9322e-01	1.9002e+00
38	TAF115136	86.3850	87.1204	86.7089	1.8349e-01	1.9002e+00
39	TAF120136	86.3234	86.8490	86.4964	1.3565e-01	1.9002e+00
40	TAF125136	86.0977	87.2477	86.6577	2.6998e-01	1.9002e+00
41	TAF130136	86.0826	86.8187	86.4191	1.7766e-01	1.9002e+00
42	TAF120048	86.3389	87.2896	86.8718	2.1448e-01	1.9002e+00
43	TAF130048	86.0510	86.6829	86.4214	1.3474e-01	1.9002e+00
44	TAF120224	86.1473	86.7791	86.4588	1.5745e-01	1.9002e+00
45	TAF130224	85.5589	86.1931	85.9307	1.6820e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	1.9287e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	86.1473	87.3040	86.7029	3.1140e-01	1.9002e+00
49	TAI130136	85.5564	86.3957	85.9642	1.6921e-01	1.9002e+00
50	TAI130224	86.3881	87.6519	87.0242	2.9015e-01	1.9002e+00
51	TAI130312	85.8614	86.5988	86.2614	1.7672e-01	1.9002e+00
52	TRR130000	85.0388	85.8787	85.3579	2.0991e-01	1.9002e+00
53	TSI000001	80.7090	81.4483	81.0849	1.5551e-01	1.9001e+00
54	TSI000002	75.4744	76.4280	75.9110	2.7499e-01	1.9000e+00
55	TSO000001	74.4413	75.2938	74.8890	1.8134e-01	1.9000e+00
56	TSO000002	75.2035	75.9464	75.5850	2.0452e-01	1.9000e+00
57	TAF020136	85.4149	86.1555	85.7663	1.9400e-01	1.9002e+00
58	TAF120312	85.5938	86.5413	86.1159	2.7771e-01	1.9002e+00
59	TAF130312	85.5097	86.1418	85.7836	1.5773e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4729	1.8082e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4875	1.8082e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5141	2.2146e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3370	6.9053e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3604	1.8950e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3957	9.6655e-04	0.0000e+00
68	EMPTY	0.4053	0.4150	0.4100	1.3811e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4292	1.4797e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4442	6.9053e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4684	1.3381e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4832	9.6655e-04	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
75	EMPTY	0.5322	0.5420	0.5371	9.8648e-04	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5710	1.1714e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5938	2.3941e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6154	9.6655e-04	0.0000e+00
80	PAN020136	17.4949	19.6312	18.4883	4.8092e-01	8.7123e-01
81	PAN050136	34.2287	35.2968	34.8787	2.3841e-01	1.6823e+00
82	PAN070136	23.1995	24.1151	23.7962	1.9233e-01	8.7203e-01
83	PAN080136	11.7846	12.3950	12.0547	1.1659e-01	8.7052e-01
84	PAN090136	11.1200	11.7304	11.4557	1.2804e-01	8.7047e-01
85	PAN100136	7.4461	7.9802	7.7178	1.1343e-01	8.7021e-01
86	PAN105136	5.0876	5.4690	5.2783	9.7789e-02	8.7010e-01
87	PAN110136	5.5248	6.2878	5.8941	1.4489e-01	8.7012e-01
88	PAN115136	6.6604	7.1181	6.8572	1.0799e-01	8.7017e-01
89	PAN120136	5.9547	6.2599	6.1104	8.0033e-02	8.7013e-01
90	PAN125136	7.6684	8.0499	7.8622	9.2752e-02	8.7022e-01
91	PAN130136	5.3017	5.6832	5.5108	8.5556e-02	8.7011e-01
92	PAN120048	9.0322	9.7188	9.4380	1.5524e-01	8.7032e-01
93	PAN130048	12.1338	12.9731	12.6252	2.0400e-01	8.7057e-01
94	PAN120224	8.6654	9.1995	8.9370	1.3002e-01	8.7029e-01
95	PAN130224	13.1976	13.7316	13.4814	1.1844e-01	8.7065e-01
96	PAN120312	10.8325	11.4428	11.1758	1.1865e-01	8.7045e-01
97	PAN130312	12.8895	13.4236	13.1626	1.1017e-01	8.7062e-01
98	PAB000136	31.0835	31.5870	31.3353	9.7106e-02	5.8527e-01
99	PAB100136	27.2850	27.4681	27.3847	4.5013e-02	5.8403e-01
100	PAB125136	26.0763	26.2594	26.1614	4.3388e-02	5.8368e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	30.9022	31.3905	31.1219	1.1029e-01	7.5402e-01
102	PRV000001	24.3456	24.5897	24.4701	3.0104e-02	7.5249e-01
103	PSR000001	25.1321	25.2542	25.1346	1.7263e-02	7.5263e-01
104	PFM000001	38.6053	39.7955	39.2553	2.8490e-01	5.0954e-01
105	PAN000136	144.4952	150.4461	147.1319	1.3324e+00	4.9337e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0076	2.4484e-03	0.0000e+00
108	EMPTY	-10.0000	1.0205	-4.2799	3.6545e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0013	2.1635e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0219	9.7377e-02	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0405	1.1161e-01	8.1000e-01
114	VPW000003	-0.2817	0.1089	0.0191	1.0595e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0057	1.2200e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	9.6735e-02	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0407	1.0507e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3079	1.0620e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.3017	1.3217e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4530	9.6178e-01	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1660	2.4878e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0770	2.8332e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0612	3.3901e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	3.9961e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0160	2.9660e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0333	8.2864e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0200	9.1354e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	8.7880e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0232	9.7377e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0539	1.0014e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0050	1.0145e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0162	8.2393e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0368	9.6655e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	6.2265e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0254	9.5765e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0365	9.4702e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0386	9.4702e-02	4.1000e+00
140	IHT000013	-0.3531	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0533	1.0440e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0159	6.4113e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
144	IHT000017	-0.6536	0.7136	-0.0207	3.2910e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0149	1.2627e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1531	8.4997e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0472	1.0654e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0104	9.5765e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	0.0194	9.7377e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0278	8.8233e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0336	6.2265e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0137	8.5454e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0006	7.7324e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0278	8.8233e-02	4.1000e+00
155	IHT000028	-0.1803	0.4056	0.0111	1.3375e-01	4.1000e+00

Test: Jul31_06

sum1

Date: Tue Jul 31 11:13:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.3493	0.0056	1.0106e-01	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0349	1.1844e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0449	1.1995e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0213	1.0885e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0210	9.8648e-02	4.1000e+00
161	IHT000034	-0.1765	0.4094	0.0344	1.2378e-01	4.1000e+00
162	IHT000035	-0.4169	0.3643	0.0323	1.2633e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0389	1.0763e-01	4.1000e+00

Velocity 1 = 15.9827 (ft/sec) (+/- 1.7891 %)
 Velocity 2 = 13.4250 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 5.3035 (psi)
 Tsat in = 253.0590 (deg F) Tsat out = 242.6962 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3651.4934 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3561.0996 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1660	1.5769e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9681	1.2886e-01	1.9000e+00
2	TFM000001	86.0030	87.1591	86.5072	2.1455e-01	1.9002e+00
3	TIN000001	85.2090	85.9465	85.5896	1.5780e-01	1.9002e+00
4	TRV000001	85.7956	86.5308	86.2052	1.6486e-01	1.9002e+00
5	TSR000001	86.1116	86.6379	86.4014	1.4782e-01	1.9002e+00
6	TAO020136	79.8418	80.7950	80.3366	2.1440e-01	1.9001e+00
7	TAO050136	85.7641	86.3955	86.1335	1.6757e-01	1.9002e+00
8	TAO070136	85.7686	86.6134	86.2212	2.0329e-01	1.9002e+00
9	TAO080136	85.5619	86.2966	85.9370	1.8049e-01	1.9002e+00
10	TAO090136	86.2327	87.0743	86.6622	1.9516e-01	1.9002e+00
11	TAO100136	85.5850	86.2173	85.9462	1.5340e-01	1.9002e+00
12	TAO105136	86.5074	87.3502	86.9784	2.3758e-01	1.9002e+00
13	TAO110136	86.0740	86.7044	86.4046	1.4037e-01	1.9002e+00
14	TAO115136	86.1190	86.9614	86.5773	1.9758e-01	1.9002e+00
15	TAO120136	85.7387	86.2655	86.0099	1.0760e-01	1.9002e+00
16	TAO125136	86.5890	87.1151	86.8258	1.1669e-01	1.9002e+00
17	TAO130136	85.7226	86.2469	85.9646	1.3359e-01	1.9002e+00
18	TAO120048	73.0716	73.8162	73.4643	1.6133e-01	1.9000e+00
19	TAO130048	85.5749	86.1010	85.8601	1.3048e-01	1.9002e+00
20	TAO120224	85.8895	86.4161	86.1880	1.3303e-01	1.9002e+00
21	TAO130224	85.9619	86.4866	86.2086	1.2573e-01	1.9002e+00
22	TAO120312	85.7628	86.6056	86.2102	1.8687e-01	1.9002e+00
23	TAO130312	85.6414	86.2728	86.0239	1.5128e-01	1.9002e+00
24	TRT020000	86.2455	86.9837	86.6090	2.0648e-01	1.9002e+00
25	TRT070000	86.1218	86.7562	86.4154	1.4663e-01	1.9002e+00
26	TRT100000	86.2985	87.1389	86.7235	1.8308e-01	1.9002e+00
27	TRT120000	86.1018	86.7337	86.4414	1.4286e-01	1.9002e+00
28	TRT125000	85.8860	86.9346	86.4043	2.3165e-01	1.9002e+00
29	TRT130000	85.9063	86.5367	86.2302	1.5899e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6384	2.0955e-01	1.9011e+00
31	TAF050136	86.3538	86.9836	86.6223	1.6047e-01	1.9002e+00
32	TAF070136	86.4544	87.2917	86.9703	2.0426e-01	1.9002e+00
33	TAF080136	86.2160	86.8465	86.5126	1.4923e-01	1.9002e+00
34	TAF090136	73.4113	74.5784	74.0761	2.7885e-01	1.9000e+00
35	TAF100136	85.9497	86.7926	86.3991	1.7445e-01	1.9002e+00
36	TAF105136	85.7631	86.7028	86.3043	2.0302e-01	1.9002e+00
37	TAF110136	85.8932	86.4189	86.1574	1.4077e-01	1.9002e+00
38	TAF115136	86.1759	87.1209	86.7305	2.0444e-01	1.9002e+00
39	TAF120136	86.2183	86.8495	86.5320	1.4774e-01	1.9002e+00
40	TAF125136	86.2029	87.1421	86.6587	2.2107e-01	1.9002e+00
41	TAF130136	86.0831	86.7130	86.4025	1.6187e-01	1.9002e+00
42	TAF120048	86.3394	87.1846	86.8157	2.4515e-01	1.9002e+00
43	TAF130048	86.0510	86.7871	86.4054	1.7125e-01	1.9002e+00
44	TAF120224	85.9391	86.8831	86.4888	1.6817e-01	1.9002e+00
45	TAF130224	85.5589	86.1926	85.9319	1.6422e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1147	1.9979e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2402	1.1403e-01	1.9010e+00
48	TAI130048	85.9377	87.1990	86.7464	3.0585e-01	1.9002e+00
49	TAI130136	85.7660	86.3962	85.9961	1.6403e-01	1.9002e+00
50	TAI130224	86.4932	87.5469	87.0652	2.8600e-01	1.9002e+00
51	TAI130312	85.7557	86.5988	86.2847	1.9165e-01	1.9002e+00
52	TRR130000	84.8278	85.7735	85.3559	2.3819e-01	1.9002e+00
53	TSI000001	80.7090	81.4483	81.1034	1.6645e-01	1.9001e+00
54	TSI000002	75.4744	76.4280	75.9696	2.7178e-01	1.9000e+00
55	TSO000001	74.5480	75.2933	74.8873	1.6366e-01	1.9000e+00
56	TSO000002	74.9902	75.9458	75.5279	2.0486e-01	1.9000e+00
57	TAF020136	85.5212	86.1550	85.8231	1.7397e-01	1.9002e+00
58	TAF120312	85.3842	86.5413	86.0172	2.7437e-01	1.9002e+00
59	TAF130312	85.4045	86.0367	85.7700	1.6650e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4721	2.2737e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4867	2.3135e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5008	2.4414e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5169	1.7263e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3372	1.1827e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3608	1.4934e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3761	6.9754e-04	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4295	9.7615e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4444	6.9754e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4687	6.9754e-04	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4832	9.7615e-04	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5187	2.0584e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5373	9.7615e-04	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5519	6.9754e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5717	1.3508e-03	0.0000e+00
78	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6194	1.7263e-03	0.0000e+00
80	PAN020136	17.5712	19.4023	18.2875	4.3125e-01	8.7120e-01
81	PAN050136	34.3812	35.4494	34.8483	2.3804e-01	1.6823e+00
82	PAN070136	23.3521	24.1914	23.7834	1.8788e-01	8.7203e-01
83	PAN080136	11.7083	12.2424	11.9948	1.2986e-01	8.7052e-01
84	PAN090136	11.2726	11.7304	11.4750	1.2317e-01	8.7047e-01
85	PAN100136	7.5224	7.9802	7.7155	1.0801e-01	8.7021e-01
86	PAN105136	5.0113	5.4690	5.2744	8.6795e-02	8.7010e-01
87	PAN110136	5.6011	6.1352	5.9110	1.3343e-01	8.7013e-01
88	PAN115136	6.5841	7.0418	6.8783	9.3441e-02	8.7017e-01
89	PAN120136	5.9547	6.2599	6.0809	7.7165e-02	8.7013e-01
90	PAN125136	7.6684	7.9736	7.8911	7.6034e-02	8.7022e-01
91	PAN130136	5.3780	5.6832	5.5228	8.8433e-02	8.7011e-01
92	PAN120048	9.1085	9.7188	9.4292	1.2934e-01	8.7032e-01
93	PAN130048	12.2101	13.0494	12.6710	2.0422e-01	8.7058e-01
94	PAN120224	8.5891	9.1232	8.8943	1.2263e-01	8.7028e-01
95	PAN130224	13.1976	13.6553	13.4576	1.0892e-01	8.7065e-01
96	PAN120312	10.8325	11.2902	11.1345	1.1545e-01	8.7045e-01
97	PAN130312	12.8895	13.6524	13.1698	1.4391e-01	8.7062e-01
98	PAB000136	31.1751	31.5413	31.3768	8.1416e-02	5.8528e-01
99	PAB100136	27.3307	27.5596	27.4354	4.9444e-02	5.8404e-01
100	PAB125136	26.1221	26.3052	26.2183	4.2043e-02	5.8369e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	30.9022	31.2684	31.0691	9.8712e-02	7.5401e-01
102	PRV000001	24.3456	24.4677	24.4552	3.7334e-02	7.5249e-01
103	PSR000001	25.0100	25.2542	25.1545	5.3867e-02	7.5263e-01
104	PFM000001	38.7884	39.7955	39.2256	1.9445e-01	5.0953e-01
105	PAN000136	143.1219	149.9883	146.3307	1.4055e+00	4.9337e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0078	2.4247e-03	0.0000e+00
108	EMPTY	-10.0000	0.6348	-3.8457	3.2124e+00	0.0000e+00
109	EMPTY	-0.0049	0.0098	0.0047	1.7146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.6172e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0515	9.7656e-02	8.1000e-01
113	VPW000002	-0.4282	0.1577	0.0103	1.2308e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0451	1.1546e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0047	9.3759e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0376	9.7656e-02	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0424	1.1276e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3517	9.4582e-01	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.4817	1.4259e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2954	1.0500e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.0947	2.6752e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0979	2.9898e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0240	3.4054e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0185	3.5908e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	3.0472e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	2.9146e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0049	-0.0163	3.6690e-03	0.0000e+00
128	IHT000001	-0.3456	0.2404	0.0052	1.1262e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0272	7.8092e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0117	7.9328e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0135	1.0625e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	-0.0032	9.6150e-02	4.1000e+00
133	IHT000006	-0.1239	0.0714	-0.0083	9.6990e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0168	8.3122e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0145	8.9148e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0202	8.5810e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0149	1.0076e-01	4.1000e+00
138	IHT000011	-0.2291	0.3568	0.0100	9.9792e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0013	1.0594e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0182	1.0548e-01	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0557	1.2491e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0005	6.8582e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0358	9.8648e-02	4.1000e+00
144	IHT000017	-0.2629	0.5183	0.1676	2.3579e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0168	9.8648e-02	4.1000e+00
146	IHT000019	-0.3718	0.2141	-0.1606	1.1161e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0543	1.0299e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0079	9.5132e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0182	1.0409e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0166	7.9736e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0296	6.8582e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0209	7.9736e-02	4.1000e+00
153	IHT000026	-0.1803	0.4057	0.0111	9.3412e-02	4.1000e+00
154	IHT000027	-0.2066	0.3793	0.0246	9.4962e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0009	1.2504e-01	4.1000e+00

Test: Jul31_06

sum2

Date: Tue Jul 31 11:13:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0105	1.0378e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0075	1.1276e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0269	1.3112e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0067	9.5812e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0183	9.7656e-02	4.1000e+00
161	IHT000034	-0.1765	0.0188	-0.0171	7.6412e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0574	9.7656e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0137	9.8153e-02	4.1000e+00

Test: Jul31_06 dif Date: Tue Jul 31 11:13:14 1990 Page: 1

Velocity 1 = 0.006000 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.010900 (psi)

Tsat in = 0.077301 (deg F) Tsat out = 0.123703 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0322	0.0434
1	TRF000002	0.0046	0.0062
2	TFM000001	0.0164	0.0190
3	TIN000001	0.0282	0.0329
4	TRV000001	0.0021	0.0024
5	TSR000001	0.0004	0.0005
6	TAO020136	0.0557	0.0693
7	TAO050136	0.0577	0.0670
8	TAO070136	0.0006	0.0007
9	TAO080136	0.0572	0.0665
10	TAO090136	0.0002	0.0002
11	TAO100136	0.0221	0.0257
12	TAO105136	0.0031	0.0036
13	TAO110136	0.0359	0.0416
14	TAO115136	0.0408	0.0472
15	TAO120136	0.0324	0.0376
16	TAO125136	0.0468	0.0539
17	TAO130136	0.0012	0.0014
18	TAO120048	0.0143	0.0195
19	TAO130048	0.0037	0.0043
20	TAO120224	0.0086	0.0100
21	TAO130224	0.0095	0.0110
22	TAO120312	0.0163	0.0189
23	TAO130312	0.0342	0.0397
24	TRT020000	0.0033	0.0038
25	TRT070000	0.0016	0.0018
26	TRT100000	0.0212	0.0245
27	TRT120000	0.0236	0.0273
28	TRT125000	0.0146	0.0169
29	TRT130000	0.0081	0.0094
30	EMPTY	0.0190	0.0480
31	TAF050136	0.0133	0.0153
32	TAF070136	0.0523	0.0602
33	TAF080136	0.0148	0.0171
34	TAF090136	0.0664	0.0897
35	TAF100136	0.0070	0.0081
36	TAF105136	0.0277	0.0321
37	TAF110136	0.0218	0.0253
38	TAF115136	0.0216	0.0249
39	TAF120136	0.0356	0.0412
40	TAF125136	0.0010	0.0012
41	TAF130136	0.0166	0.0192
42	TAF120048	0.0561	0.0646
43	TAF130048	0.0160	0.0185
44	TAF120224	0.0300	0.0347
45	TAF130224	0.0012	0.0014

#	Name	Abs Diff	%Diff
46	EMPTY	0.0023	0.0060
47	EMPTY	0.0616	0.1572
48	TAI130048	0.0435	0.0502
49	TAI130136	0.0319	0.0371
50	TAI130224	0.0410	0.0471
51	TAI130312	0.0233	0.0270
52	TRR130000	0.0020	0.0023
53	TSI000001	0.0185	0.0228
54	TSI000002	0.0586	0.0772
55	TSO000001	0.0017	0.0023
56	TSO000002	0.0571	0.0755
57	TAF020136	0.0568	0.0662
58	TAF120312	0.0987	0.1146
59	TAF130312	0.0136	0.0159
60	EMPTY	0.0008	0.1692
61	EMPTY	0.0008	0.1641
62	EMPTY	0.0025	0.5017
63	EMPTY	0.0028	0.5446
64	EMPTY	0.0002	0.0593
65	EMPTY	0.0004	0.1110
66	EMPTY	0.0001	0.0266
67	EMPTY	0.0002	0.0505
68	EMPTY	0.0002	0.0488
69	EMPTY	0.0003	0.0699
70	EMPTY	0.0002	0.0450
71	EMPTY	0.0003	0.0640
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0199
74	EMPTY	0.0012	0.2319
75	EMPTY	0.0002	0.0372
76	EMPTY	0.0003	0.0544
77	EMPTY	0.0007	0.1226
78	EMPTY	0.0019	0.3200
79	EMPTY	0.0040	0.6500
80	PAN020136	0.2008	1.0861
81	PAN050136	0.0304	0.0872
82	PAN070136	0.0128	0.0538
83	PAN080136	0.0599	0.4969
84	PAN090136	0.0193	0.1685
85	PAN100136	0.0023	0.0298
86	PAN105136	0.0039	0.0739
87	PAN110136	0.0169	0.2867
88	PAN115136	0.0211	0.3077
89	PAN120136	0.0295	0.4828
90	PAN125136	0.0289	0.3676
91	PAN130136	0.0120	0.2178
92	PAN120048	0.0088	0.0932
93	PAN130048	0.0458	0.3628
94	PAN120224	0.0427	0.4778
95	PAN130224	0.0238	0.1765
96	PAN120312	0.0413	0.3696
97	PAN130312	0.0072	0.0547
98	PAB000136	0.0415	0.1324
99	PAB100136	0.0507	0.1851
100	PAB125136	0.0569	0.2175

Test: Jul31_06

dif

Date: Tue Jul 31 11:13:14 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0528	0.1697
102	PRV000001	0.0149	0.0609
103	PSR000001	0.0199	0.0792
104	PFM000001	0.0297	0.0757
105	PAN000136	0.3012	0.2047
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0002	2.6316
108	EMPTY	0.4342	10.1451
109	EMPTY	0.0001	2.0833
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0007	53.8461
112	VPW000001	0.0296	135.1598
113	VPW000002	0.0302	74.5679
114	VPW000003	0.0260	136.1257
115	VPW000004	0.0010	17.5439
116	VPW000005	0.0274	268.6274
117	VPW000006	0.0017	4.1769
118	IPW000001	0.0438	14.2254
119	IPW000002	0.1800	59.6619
120	IPW000003	0.1576	34.7903
121	IPW000004	0.0713	42.9518
122	IPW000005	0.0209	27.1429
123	IPW000006	0.0372	60.7843
124	EMPTY	0.0007	3.6458
125	EMPTY	0.0008	6.1069
126	EMPTY	0.0003	1.8750
127	EMPTY	0.0008	5.1613
128	IHT000001	0.0281	84.3844
129	IHT000002	0.0472	236.0000
130	IHT000003	0.0158	385.3658
131	IHT000004	0.0097	41.8103
132	IHT000005	0.0571	105.9369
133	IHT000006	0.0133	266.0000
134	IHT000007	0.0006	3.7037
135	IHT000008	0.0223	60.5978
136	IHT000009	0.0279	362.3376
137	IHT000010	0.0105	41.3386
138	IHT000011	0.0265	72.6027
139	IHT000012	0.0373	96.6321
140	IHT000013	0.0050	37.8788
141	IHT000014	0.0024	4.5028
142	IHT000015	0.0154	96.8553
143	IHT000016	0.0098	37.6923
144	IHT000017	0.1883	909.6619
145	IHT000018	0.0019	12.7517
146	IHT000019	0.0075	4.8988
147	IHT000020	0.0071	15.0424
148	IHT000021	0.0025	24.0385
149	IHT000022	0.0376	193.8144
150	IHT000023	0.0112	40.2878
151	IHT000024	0.0040	11.9048
152	IHT000025	0.0072	52.5547
153	IHT000026	0.0117	1949.9998
154	IHT000027	0.0032	11.5108
155	IHT000028	0.0120	108.1081

Test: Jul31_06 dif Date: Tue Jul 31 11:13:14 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0049	87.5000
157	IHT000030	0.0274	78.5100
158	IHT000031	0.0180	40.0891
159	IHT000032	0.0146	68.5446
160	IHT000033	0.0027	12.8571
161	IHT000034	0.0515	149.7093
162	IHT000035	0.0251	77.7090
163	IHT000036	0.0252	64.7815

Velocity 1 = 14.0191 (ft/sec) (+/- 1.8663 %)
Velocity 2 = 13.4251 (ft/sec) (+/- 1.7032 %)
Pressure drop = 3.0482 (psi)
Tsats in = 248.0139 (deg F) Tsats out = 241.7041 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3631.1721 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5309.6533 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1680	2.0320e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9769	1.4838e-01	1.9000e+00
2	TFM000001	86.2131	87.0535	86.5938	1.9110e-01	1.9002e+00
3	TIN000001	85.4192	86.2628	85.7042	1.5102e-01	1.9002e+00
4	TRV000001	85.7956	86.5313	86.1929	1.9570e-01	1.9002e+00
5	TSR000001	85.9022	86.6379	86.2785	1.7524e-01	1.9002e+00
6	TAO020136	79.9475	80.9006	80.3352	2.3402e-01	1.9001e+00
7	TAO050136	85.8693	86.5006	86.1408	1.7521e-01	1.9002e+00
8	TAO070136	85.8741	87.0355	86.2227	2.1766e-01	1.9002e+00
9	TAO080136	85.6677	86.2972	86.0132	1.8032e-01	1.9002e+00
10	TAO090136	86.3379	87.1793	86.7103	2.2987e-01	1.9002e+00
11	TAO100136	85.6907	86.4272	86.0167	1.6515e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	87.0322	2.1327e-01	1.9002e+00
13	TAO110136	85.9707	86.8095	86.4418	1.9437e-01	1.9002e+00
14	TAO115136	86.2242	87.0675	86.6439	2.0686e-01	1.9002e+00
15	TAO120136	85.8444	86.4763	86.1328	1.4562e-01	1.9002e+00
16	TAO125136	86.2750	87.3257	86.8442	1.7790e-01	1.9002e+00
17	TAO130136	85.7226	86.3520	86.0221	1.5836e-01	1.9002e+00
18	TAO120048	73.4959	74.1346	73.7410	1.8520e-01	1.9000e+00
19	TAO130048	85.5743	86.2061	85.9131	1.5222e-01	1.9002e+00
20	TAO120224	85.8890	86.6262	86.2450	1.7660e-01	1.9002e+00
21	TAO130224	85.9619	86.6953	86.2371	1.8581e-01	1.9002e+00
22	TAO120312	85.8685	86.7112	86.3087	1.9932e-01	1.9002e+00
23	TAO130312	85.7466	86.3785	86.0939	1.4786e-01	1.9002e+00
24	TRT020000	86.2450	86.9837	86.6397	2.2822e-01	1.9002e+00
25	TRT070000	86.2277	86.8613	86.4582	1.5630e-01	1.9002e+00
26	TRT100000	86.2992	87.1395	86.7339	2.0360e-01	1.9002e+00
27	TRT120000	86.2069	86.8388	86.4620	1.7800e-01	1.9002e+00
28	TRT125000	85.9917	86.8309	86.4922	1.9556e-01	1.9002e+00
29	TRT130000	86.1156	86.6418	86.2951	1.5376e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.1458e-01	1.9011e+00
31	TAF050136	86.3543	87.0892	86.6839	1.7248e-01	1.9002e+00
32	TAF070136	86.5572	87.3968	86.9830	2.2262e-01	1.9002e+00
33	TAF080136	86.2183	86.9516	86.5588	1.9057e-01	1.9002e+00
34	TAF090136	73.7296	74.6851	74.2366	2.3990e-01	1.9000e+00
35	TAF100136	86.1599	86.7927	86.4406	2.0382e-01	1.9002e+00
36	TAF105136	85.8665	86.8084	86.3248	2.4366e-01	1.9002e+00
37	TAF110136	85.8932	86.7338	86.2191	1.9476e-01	1.9002e+00
38	TAF115136	86.3850	87.2260	86.8284	2.1350e-01	1.9002e+00
39	TAF120136	86.3240	86.9546	86.5991	1.6294e-01	1.9002e+00
40	TAF125136	86.0977	87.1444	86.6559	2.6848e-01	1.9002e+00
41	TAF130136	86.0826	86.7142	86.4507	1.5072e-01	1.9002e+00
42	TAF120048	86.3394	87.3952	86.8992	2.2002e-01	1.9002e+00
43	TAF130048	86.0516	86.8927	86.4655	1.8091e-01	1.9002e+00
44	TAF120224	86.1473	86.9887	86.5113	2.0280e-01	1.9002e+00
45	TAF130224	85.6651	86.4036	85.9920	1.7085e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0359e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.1479	87.4096	86.7471	3.0343e-01	1.9002e+00
49	TAI130136	85.6616	86.5019	86.0083	1.9258e-01	1.9002e+00
50	TAI130224	86.5983	87.6519	87.1064	2.7716e-01	1.9002e+00
51	TAI130312	85.8614	86.8092	86.3352	2.1303e-01	1.9002e+00
52	TRR130000	84.9330	85.9844	85.3978	2.4207e-01	1.9002e+00
53	TSI000001	80.7090	81.3434	80.9608	1.6658e-01	1.9001e+00
54	TSI000002	75.5810	76.6392	76.0823	2.5732e-01	1.9000e+00
55	TSO000001	74.8672	75.5065	75.1340	1.9025e-01	1.9000e+00
56	TSO000002	75.3084	76.3703	75.7611	2.4150e-01	1.9000e+00
57	TAF020136	85.4154	86.2606	85.8530	1.9099e-01	1.9002e+00
58	TAF120312	85.5938	86.6464	86.1181	2.7244e-01	1.9002e+00
59	TAF130312	85.5097	86.1418	85.7984	1.3921e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4732	1.6624e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4876	1.7115e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5006	2.4642e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5169	1.7115e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3377	1.8082e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3608	1.4797e-03	0.0000e+00
66	EMPTY	0.3711	0.3809	0.3760	9.8648e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4295	9.6655e-04	0.0000e+00
70	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4688	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5185	1.8950e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5374	1.1714e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5718	1.4797e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5954	1.1714e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6195	1.6028e-03	0.0000e+00
80	PAN020136	10.2470	11.5440	10.8726	3.0866e-01	8.7042e-01
81	PAN050136	19.5802	20.4957	19.9464	2.5044e-01	1.6807e+00
82	PAN070136	13.0524	13.6628	13.4141	1.4929e-01	8.7065e-01
83	PAN080136	6.4440	6.9781	6.6775	1.2655e-01	8.7016e-01
84	PAN090136	6.8476	7.3816	7.0459	1.1535e-01	8.7018e-01
85	PAN100136	3.4789	3.9366	3.7413	1.0917e-01	8.7005e-01
86	PAN105136	2.6461	3.1039	2.9025	9.4716e-02	8.7003e-01
87	PAN110136	3.3123	3.8464	3.5885	1.0212e-01	8.7005e-01
88	PAN115136	3.6086	3.9901	3.8344	1.0103e-01	8.7005e-01
89	PAN120136	3.8185	4.0474	3.9253	6.7187e-02	8.7006e-01
90	PAN125136	4.3878	4.7693	4.5404	8.4424e-02	8.7007e-01
91	PAN130136	2.8603	3.1655	3.0327	6.1288e-02	8.7003e-01
92	PAN120048	4.8360	5.2938	5.0801	1.2038e-01	8.7009e-01
93	PAN130048	7.2510	7.8614	7.5775	1.4214e-01	8.7021e-01
94	PAN120224	4.2404	4.6982	4.4708	1.0622e-01	8.7007e-01
95	PAN130224	7.2467	7.7044	7.5320	1.0878e-01	8.7020e-01
96	PAN120312	6.2548	6.7889	6.5371	1.2451e-01	8.7015e-01
97	PAN130312	7.3200	7.7778	7.6420	1.1667e-01	8.7021e-01
98	PAB000136	28.6574	28.9320	28.7645	6.5793e-02	5.8444e-01
99	PAB100136	26.4610	26.5983	26.5260	4.4440e-02	5.8378e-01
100	PAB125136	25.7101	25.8474	25.7650	4.2381e-02	5.8357e-01

Test: Jul31_07

sum1

Date: Tue Jul 31 11:16:10 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.3387	28.7049	28.5414	1.0639e-01	7.5339e-01
102	PRV000001	24.3456	24.5897	24.4970	5.8152e-02	7.5250e-01
103	PSR000001	25.0100	25.1321	25.1248	2.9284e-02	7.5263e-01
104	PFM000001	29.5416	30.6402	30.1294	2.5569e-01	5.0564e-01
105	PAN000136	82.2393	86.8170	84.3908	1.2102e+00	4.9245e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
108	EMPTY	-10.0000	0.9131	-4.6579	3.6409e+00	0.0000e+00
109	EMPTY	0.0000	0.0195	0.0051	2.1970e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7115e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	-0.0015	9.0412e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0562	9.8569e-02	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0269	9.7377e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0021	1.1189e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0532	1.1049e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0407	1.0507e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.1517	1.2151e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	0.1066	1.1213e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4530	1.1115e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1855	2.5420e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.1062	3.1749e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.2057e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	3.8662e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.4662e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.8266e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.3087e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0177	7.9017e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0239	8.5454e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0233	8.1347e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0192	9.7935e-02	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0422	9.5765e-02	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0185	1.0595e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0006	8.6810e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0485	9.8332e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0119	7.7324e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0026	7.2330e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	-0.0043	1.0507e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0249	1.0014e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0416	1.0595e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	6.8345e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	-0.0092	8.8585e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	-0.1301	2.6599e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0149	1.1327e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1297	1.0849e-01	4.1000e+00
147	IHT000020	-0.1052	0.0902	0.0042	9.7935e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0004	7.2866e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0571	9.0412e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0215	6.8459e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	6.2265e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0083	8.1347e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0033	1.2104e-01	4.1000e+00

Test: Jul31_07

sum1

Date: Tue Jul 31 11:16:10 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0016	9.0756e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0075	1.0440e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0644	1.2534e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0135	9.8648e-02	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0093	1.0849e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	9.2456e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	1.1168e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0467	1.0470e-01	4.1000e+00

Velocity 1 = 14.0395 (ft/sec) (+/- 1.8652 %)
Velocity 2 = 13.4250 (ft/sec) (+/- 1.7032 %)
Pressure drop = 3.0521 (psi)
Tsat in = 248.1364 (deg F) Tsat out = 241.8650 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3608.8037 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 9922.8311 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1529	1.9040e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9724	1.3985e-01	1.9000e+00
2	TFM000001	86.2131	86.8447	86.5501	1.6628e-01	1.9002e+00
3	TIN000001	85.3140	85.9471	85.6799	1.4924e-01	1.9002e+00
4	TRV000001	85.7956	86.6364	86.1709	2.0874e-01	1.9002e+00
5	TSR000001	86.0064	86.7429	86.2817	1.6594e-01	1.9002e+00
6	TAO020136	79.8413	81.0066	80.3409	2.3971e-01	1.9001e+00
7	TAO050136	85.7641	86.5006	86.1462	1.6578e-01	1.9002e+00
8	TAO070136	85.7681	86.7185	86.2427	2.0112e-01	1.9002e+00
9	TAO080136	85.7710	86.2972	86.0522	1.4297e-01	1.9002e+00
10	TAO090136	86.2327	87.0743	86.7007	1.9675e-01	1.9002e+00
11	TAO100136	85.6902	86.5323	86.0019	1.8604e-01	1.9002e+00
12	TAO105136	86.6130	87.5608	87.0515	2.2987e-01	1.9002e+00
13	TAO110136	86.0740	86.8095	86.4173	1.6837e-01	1.9002e+00
14	TAO115136	86.1196	87.1726	86.5471	2.5195e-01	1.9002e+00
15	TAO120136	85.7387	86.4763	86.1172	1.8856e-01	1.9002e+00
16	TAO125136	86.4849	87.1160	86.8215	1.4252e-01	1.9002e+00
17	TAO130136	85.7231	86.3520	86.0406	1.6430e-01	1.9002e+00
18	TAO120048	73.3897	74.1346	73.6852	1.7413e-01	1.9000e+00
19	TAO130048	85.5743	86.2061	85.8985	1.5019e-01	1.9002e+00
20	TAO120224	85.8890	86.6256	86.2265	1.5202e-01	1.9002e+00
21	TAO130224	85.8568	86.4872	86.2000	1.8393e-01	1.9002e+00
22	TAO120312	86.0786	86.6059	86.2919	1.4822e-01	1.9002e+00
23	TAO130312	85.7472	86.3785	86.0881	1.3522e-01	1.9002e+00
24	TRT020000	86.1399	87.2995	86.6693	2.3131e-01	1.9002e+00
25	TRT070000	86.1226	86.8613	86.4629	1.6727e-01	1.9002e+00
26	TRT100000	86.1940	87.1389	86.7619	1.8809e-01	1.9002e+00
27	TRT120000	86.2069	86.8388	86.4500	1.7614e-01	1.9002e+00
28	TRT125000	85.9917	86.9341	86.4895	2.2198e-01	1.9002e+00
29	TRT130000	86.0104	86.7474	86.2858	1.6339e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6010	1.9027e-01	1.9011e+00
31	TAF050136	86.3538	87.0892	86.6863	2.0374e-01	1.9002e+00
32	TAF070136	86.5577	87.2917	86.9915	1.7502e-01	1.9002e+00
33	TAF080136	86.2160	87.0544	86.5720	1.7375e-01	1.9002e+00
34	TAF090136	73.7296	74.5789	74.1885	2.4158e-01	1.9000e+00
35	TAF100136	86.0548	87.0033	86.4076	2.0242e-01	1.9002e+00
36	TAF105136	85.9694	87.0163	86.3765	2.2848e-01	1.9002e+00
37	TAF110136	85.8937	86.6281	86.2171	1.6459e-01	1.9002e+00
38	TAF115136	86.3855	87.2260	86.8075	2.1384e-01	1.9002e+00
39	TAF120136	86.2183	86.9546	86.5832	1.8463e-01	1.9002e+00
40	TAF125136	86.0972	87.2471	86.6586	2.5204e-01	1.9002e+00
41	TAF130136	86.1870	86.9237	86.4624	1.6051e-01	1.9002e+00
42	TAF120048	86.4453	87.2896	86.9021	1.8595e-01	1.9002e+00
43	TAF130048	86.0510	86.7876	86.4482	1.7218e-01	1.9002e+00
44	TAF120224	86.2519	86.8836	86.5486	1.9029e-01	1.9002e+00
45	TAF130224	85.6649	86.4036	85.9836	1.8714e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1147	1.8844e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2121	1.0481e-01	1.9010e+00
48	TAI130048	86.1473	87.4096	86.7764	3.1052e-01	1.9002e+00
49	TAI130136	85.5570	86.5014	86.0174	2.0755e-01	1.9002e+00
50	TAI130224	86.4932	87.5469	87.0910	2.4741e-01	1.9002e+00
51	TAI130312	85.9663	86.8087	86.3233	1.8223e-01	1.9002e+00
52	TRR130000	84.8278	85.9844	85.3345	2.6495e-01	1.9002e+00
53	TSI000001	80.6034	81.2379	80.9315	1.5742e-01	1.9001e+00
54	TSI000002	75.4744	76.5339	75.9911	2.7375e-01	1.9000e+00
55	TSO000001	74.7614	75.5068	75.1438	1.8303e-01	1.9000e+00
56	TSO000002	75.3090	76.1584	75.7789	2.0449e-01	1.9000e+00
57	TAF020136	85.3097	86.2606	85.8577	2.0080e-01	1.9002e+00
58	TAF120312	85.6996	86.6464	86.1502	2.1777e-01	1.9002e+00
59	TAF130312	85.4045	86.1418	85.7871	1.9180e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4731	1.4934e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4882	1.2165e-03	0.0000e+00
62	EMPTY	0.4980	0.5078	0.5025	1.6787e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5177	6.9754e-04	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3373	1.3508e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3609	1.3508e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3763	1.1827e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
68	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4296	6.9754e-04	0.0000e+00
70	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4688	6.9754e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4836	9.7615e-04	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9754e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5200	2.4662e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5377	1.6172e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5519	6.9754e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5727	2.2287e-03	0.0000e+00
78	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6200	6.9754e-04	0.0000e+00
80	PAN020136	10.2470	11.9255	10.9461	3.2754e-01	8.7043e-01
81	PAN050136	19.2750	20.4957	20.0006	2.9306e-01	1.6807e+00
82	PAN070136	13.2050	13.8154	13.4541	1.5161e-01	8.7065e-01
83	PAN080136	6.5203	6.9018	6.6947	1.1338e-01	8.7016e-01
84	PAN090136	6.7713	7.3053	7.0593	1.1472e-01	8.7018e-01
85	PAN100136	3.5552	3.9366	3.7607	1.0117e-01	8.7005e-01
86	PAN105136	2.7224	3.1039	2.9015	9.2856e-02	8.7003e-01
87	PAN110136	3.3886	3.9227	3.6050	1.0829e-01	8.7005e-01
88	PAN115136	3.6086	4.0664	3.8546	1.0707e-01	8.7005e-01
89	PAN120136	3.6659	4.0474	3.9368	8.8181e-02	8.7006e-01
90	PAN125136	4.3878	4.6930	4.5964	8.2076e-02	8.7008e-01
91	PAN130136	2.8603	3.2418	3.0222	9.0316e-02	8.7003e-01
92	PAN120048	4.8360	5.3701	5.0711	1.0428e-01	8.7009e-01
93	PAN130048	7.2510	8.0140	7.6621	1.6020e-01	8.7021e-01
94	PAN120224	4.1641	4.6982	4.4630	1.1946e-01	8.7007e-01
95	PAN130224	7.3230	7.7044	7.5394	9.8921e-02	8.7020e-01
96	PAN120312	6.3311	6.7889	6.5507	1.1925e-01	8.7015e-01
97	PAN130312	7.4726	7.8541	7.6595	1.0100e-01	8.7021e-01
98	PAB000136	28.7031	29.0236	28.8255	6.6328e-02	5.8446e-01
99	PAB100136	26.5068	26.6899	26.5964	4.5737e-02	5.8380e-01
100	PAB125136	25.7559	25.9390	25.8381	4.0708e-02	5.8359e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.3387	28.8270	28.5829	9.3233e-02	7.5340e-01
102	PRV000001	24.4677	24.4677	24.4677	7.7085e-06	7.5249e-01
103	PSR000001	25.1321	25.2542	25.1595	5.1461e-02	7.5263e-01
104	PFM000001	29.8162	30.5487	30.2180	1.9850e-01	5.0567e-01
105	PAN000136	81.3238	87.2747	84.5001	1.2894e+00	4.9245e+00
106	PFM000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0057	1.8234e-03	0.0000e+00
108	EMPTY	-10.0000	1.9629	-3.2644	3.3136e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0046	1.5467e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0754	9.9303e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0501	9.8153e-02	8.1000e-01
114	VPW000003	-0.2817	0.1089	0.0212	1.0594e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0072	9.9303e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0575	1.0731e-01	8.1000e-01
117	VPW000006	-0.0413	0.1540	0.0504	9.8483e-02	8.1000e-01
118	IPW000001	-1.8397	4.0173	-0.0467	1.3711e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.2351	1.0930e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4944	1.2209e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1246	2.9111e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1078	3.2057e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1037	3.5310e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.5109e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	2.7128e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0538e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.7564e-03	0.0000e+00
128	IHT000001	-0.3456	0.2404	0.0211	9.4620e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0033	8.8783e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0082	6.1868e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0215	1.0548e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0566	9.9303e-02	4.1000e+00
133	IHT000006	-0.1239	0.0714	-0.0004	9.5132e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0168	9.2189e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0304	1.0315e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0082	8.5705e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	0.0109	9.9303e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0220	9.7656e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0252	9.7656e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0023	8.8965e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0677	1.0076e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0084	6.7148e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0358	9.8648e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0320	2.8783e-01	4.1000e+00
145	IHT000018	-0.3117	0.0789	-0.0008	1.0486e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1367	1.1262e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0423	1.1644e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0199	1.0548e-01	4.1000e+00
149	IHT000022	-0.0939	0.2967	0.0018	1.0640e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0206	8.3122e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0575	9.1305e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	0.0030	8.7123e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0150	5.6382e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0326	8.2338e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0031	1.1560e-01	4.1000e+00

Test: Jul31_07

sum2

Date: Tue Jul 31 11:16:10 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0054	8.6187e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0235	8.7680e-02	4.1000e+00
158	IHT000031	-0.2442	0.1465	0.0309	1.0486e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0067	8.7123e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0143	9.5812e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	9.7656e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0455	9.5132e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0217	1.0486e-01	4.1000e+00

Test: Jul31_07 dif Date: Tue Jul 31 11:16:10 1990 Page: 1

Velocity 1 = 0.020400 (ft/sec)

Velocity 2 = 0.000100 (ft/sec)

Pressure Drop = 0.003900 (psi)

Tsat in = 0.122498 (deg F) Tsat out = 0.160904 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0151	0.0204
1	TRF000002	0.0045	0.0061
2	TFM000001	0.0437	0.0505
3	TIN000001	0.0243	0.0284
4	TRV000001	0.0220	0.0255
5	TSR000001	0.0032	0.0037
6	TAO020136	0.0057	0.0071
7	TAO050136	0.0054	0.0063
8	TAO070136	0.0200	0.0232
9	TAO080136	0.0390	0.0453
10	TAO090136	0.0096	0.0111
11	TAO100136	0.0148	0.0172
12	TAO105136	0.0193	0.0222
13	TAO110136	0.0245	0.0283
14	TAO115136	0.0968	0.1117
15	TAO120136	0.0156	0.0181
16	TAO125136	0.0227	0.0261
17	TAO130136	0.0185	0.0215
18	TAO120048	0.0558	0.0757
19	TAO130048	0.0146	0.0170
20	TAO120224	0.0185	0.0215
21	TAO130224	0.0371	0.0430
22	TAO120312	0.0168	0.0195
23	TAO130312	0.0058	0.0067
24	TRT020000	0.0296	0.0342
25	TRT070000	0.0047	0.0054
26	TRT100000	0.0280	0.0323
27	TRT120000	0.0120	0.0139
28	TRT125000	0.0027	0.0031
29	TRT130000	0.0093	0.0108
30	EMPTY	0.0184	0.0464
31	TAF050136	0.0024	0.0028
32	TAF070136	0.0085	0.0098
33	TAF080136	0.0132	0.0152
34	TAF090136	0.0481	0.0648
35	TAF100136	0.0330	0.0382
36	TAF105136	0.0517	0.0599
37	TAF110136	0.0020	0.0023
38	TAF115136	0.0209	0.0241
39	TAF120136	0.0159	0.0184
40	TAF125136	0.0027	0.0031
41	TAF130136	0.0117	0.0135
42	TAF120048	0.0029	0.0033
43	TAF130048	0.0173	0.0200
44	TAF120224	0.0373	0.0431
45	TAF130224	0.0084	0.0098

#	Name	Abs Diff	%Diff
46	EMPTY	0.0069	0.0181
47	EMPTY	0.0243	0.0620
48	TAI130048	0.0293	0.0338
49	TAI130136	0.0091	0.0106
50	TAI130224	0.0154	0.0177
51	TAI130312	0.0119	0.0138
52	TRR130000	0.0633	0.0741
53	TSI000001	0.0293	0.0362
54	TSI000002	0.0912	0.1199
55	TSO000001	0.0098	0.0130
56	TSO000002	0.0178	0.0235
57	TAF020136	0.0047	0.0055
58	TAF120312	0.0321	0.0373
59	TAF130312	0.0113	0.0132
60	EMPTY	0.0001	0.0211
61	EMPTY	0.0006	0.1231
62	EMPTY	0.0019	0.3795
63	EMPTY	0.0008	0.1548
64	EMPTY	0.0004	0.1185
65	EMPTY	0.0001	0.0277
66	EMPTY	0.0003	0.0798
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0001	0.0244
69	EMPTY	0.0001	0.0233
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0002	0.0414
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0015	0.2893
75	EMPTY	0.0003	0.0558
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0009	0.1574
78	EMPTY	0.0003	0.0504
79	EMPTY	0.0005	0.0807
80	PAN020136	0.0735	0.6760
81	PAN050136	0.0542	0.2717
82	PAN070136	0.0400	0.2982
83	PAN080136	0.0172	0.2576
84	PAN090136	0.0134	0.1902
85	PAN100136	0.0194	0.5185
86	PAN105136	0.0010	0.0345
87	PAN110136	0.0165	0.4598
88	PAN115136	0.0202	0.5268
89	PAN120136	0.0115	0.2930
90	PAN125136	0.0560	1.2334
91	PAN130136	0.0105	0.3462
92	PAN120048	0.0090	0.1772
93	PAN130048	0.0846	1.1165
94	PAN120224	0.0078	0.1745
95	PAN130224	0.0074	0.0982
96	PAN120312	0.0136	0.2080
97	PAN130312	0.0175	0.2290
98	PAB000136	0.0610	0.2121
99	PAB100136	0.0704	0.2654
100	PAB125136	0.0731	0.2837

Test: Jul31_07

dif

Date: Tue Jul 31 11:16:10 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0415	0.1454
102	PRV000001	0.0293	0.1196
103	PSR000001	0.0347	0.1381
104	PFM000001	0.0886	0.2941
105	PAN000136	0.1093	0.1295
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0004	6.5574
108	EMPTY	1.3935	29.9169
109	EMPTY	0.0005	9.8039
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0006	85.7143
112	VPW000001	0.0769	5126.6670
113	VPW000002	0.0061	10.8541
114	VPW000003	0.0057	21.1896
115	VPW000004	0.0051	242.8571
116	VPW000005	0.0043	8.0827
117	VPW000006	0.0097	23.8329
118	IPW000001	0.1984	130.7844
119	IPW000002	0.3417	320.5441
120	IPW000003	0.0414	9.1391
121	IPW000004	0.0609	32.8302
122	IPW000005	0.0016	1.5066
123	IPW000006	0.0522	101.3592
124	EMPTY	0.0005	2.4631
125	EMPTY	0.0011	8.3333
126	EMPTY	0.0007	4.1420
127	EMPTY	0.0010	6.6225
128	IHT000001	0.0034	19.2090
129	IHT000002	0.0272	113.8075
130	IHT000003	0.0315	135.1931
131	IHT000004	0.0023	11.9792
132	IHT000005	0.0144	34.1232
133	IHT000006	0.0181	97.8378
134	IHT000007	0.0162	2699.9995
135	IHT000008	0.0181	37.3196
136	IHT000009	0.0037	31.0924
137	IHT000010	0.0402	137.2014
138	IHT000011	0.0246	946.1538
139	IHT000012	0.0295	686.0465
140	IHT000013	0.0226	90.7631
141	IHT000014	0.0261	62.7404
142	IHT000015	0.0159	212.0000
143	IHT000016	0.0450	489.1304
144	IHT000017	0.1621	124.5965
145	IHT000018	0.0141	94.6309
146	IHT000019	0.0070	5.3971
147	IHT000020	0.0381	907.1429
148	IHT000021	0.0217	52.1635
149	IHT000022	0.0098	122.5000
150	IHT000023	0.0202	5050.0005
151	IHT000024	0.0004	0.7005
152	IHT000025	0.0245	113.9535
153	IHT000026	0.0039	20.6349
154	IHT000027	0.0243	292.7711
155	IHT000028	0.0002	6.0606

Test: Jul31_07 dif Date: Tue Jul 31 11:16:10 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0070	437.5001
157	IHT000030	0.0160	213.3333
158	IHT000031	0.0335	52.0186
159	IHT000032	0.0068	50.3704
160	IHT000033	0.0050	53.7634
161	IHT000034	0.0039	26.1745
162	IHT000035	0.0444	4036.3635
163	IHT000036	0.0250	53.5332

Velocity 1 = 12.0548 (ft/sec) (+/- 2.0148 %)
 Velocity 2 = 11.9100 (ft/sec) (+/- 1.7224 %)
 Pressure drop = 1.0502 (psi)
 T_{sat} in = 243.4324 (deg F) T_{sat} out = 241.1102 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft²) (+/- 3098.1414 %)
 Phi outer = 0.0000 (kBtu/hr-ft²) (+/- 4158.2124 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1680	2.0320e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9897	1.4543e-01	1.9000e+00
2	TFM000001	86.3183	87.2646	86.7471	2.2968e-01	1.9002e+00
3	TIN000001	85.4197	86.2628	85.8538	1.9478e-01	1.9002e+00
4	TRV000001	85.9014	87.0548	86.3415	2.2439e-01	1.9002e+00
5	TSR000001	86.0064	86.5337	86.2973	1.3223e-01	1.9002e+00
6	TAO020136	79.8413	80.7945	80.3203	2.4699e-01	1.9001e+00
7	TAO050136	85.8693	86.7098	86.3145	1.9757e-01	1.9002e+00
8	TAO070136	85.9802	86.9295	86.4317	2.2459e-01	1.9002e+00
9	TAO080136	85.8750	86.7146	86.2328	1.8748e-01	1.9002e+00
10	TAO090136	86.3379	87.2834	86.8718	2.0898e-01	1.9002e+00
11	TAO100136	85.9002	86.5323	86.1911	1.7224e-01	1.9002e+00
12	TAO105136	86.7185	87.6657	87.2069	2.1876e-01	1.9002e+00
13	TAO110136	86.2824	86.9127	86.5856	1.7449e-01	1.9002e+00
14	TAO115136	86.3296	87.2774	86.7807	2.5358e-01	1.9002e+00
15	TAO120136	85.9490	86.6864	86.2400	1.6839e-01	1.9002e+00
16	TAO125136	86.5890	87.3257	87.0099	1.5771e-01	1.9002e+00
17	TAO130136	85.8247	86.4540	86.2107	1.7263e-01	1.9002e+00
18	TAO120048	73.3897	74.0284	73.7134	1.6926e-01	1.9000e+00
19	TAO130048	85.7839	86.4155	86.0660	1.6801e-01	1.9002e+00
20	TAO120224	86.0991	86.7313	86.3984	1.5971e-01	1.9002e+00
21	TAO130224	86.0650	86.8004	86.4224	1.6700e-01	1.9002e+00
22	TAO120312	85.9734	86.9217	86.4666	1.7483e-01	1.9002e+00
23	TAO130312	85.8512	86.5881	86.2093	1.6476e-01	1.9002e+00
24	TRT020000	86.3508	87.4052	86.8526	2.6648e-01	1.9002e+00
25	TRT070000	86.2277	87.0728	86.6549	2.1959e-01	1.9002e+00
26	TRT100000	86.5098	87.2445	86.9078	1.6438e-01	1.9002e+00
27	TRT120000	86.3117	86.9436	86.6152	1.5871e-01	1.9002e+00
28	TRT125000	86.2001	87.0397	86.6447	1.7821e-01	1.9002e+00
29	TRT130000	86.0104	86.7474	86.4230	1.7123e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.2361e-01	1.9011e+00
31	TAF050136	86.5631	87.1943	86.8367	1.4255e-01	1.9002e+00
32	TAF070136	86.5572	87.6056	87.1689	2.3337e-01	1.9002e+00
33	TAF080136	86.4245	87.1600	86.7403	1.8256e-01	1.9002e+00
34	TAF090136	73.6228	74.8960	74.2684	2.7104e-01	1.9000e+00
35	TAF100136	86.1605	87.1088	86.6071	1.9810e-01	1.9002e+00
36	TAF105136	86.0745	87.1219	86.5354	2.3157e-01	1.9002e+00
37	TAF110136	85.9973	86.8373	86.3761	1.9344e-01	1.9002e+00
38	TAF115136	86.2816	87.3304	86.9856	2.2258e-01	1.9002e+00
39	TAF120136	86.4275	87.1637	86.7309	1.6955e-01	1.9002e+00
40	TAF125136	86.3057	87.5610	86.8789	2.8413e-01	1.9002e+00
41	TAF130136	86.2912	87.0281	86.6246	1.9276e-01	1.9002e+00
42	TAF120048	86.7617	87.5010	87.1381	1.8494e-01	1.9002e+00
43	TAF130048	86.2609	87.1024	86.6313	2.1056e-01	1.9002e+00
44	TAF120224	86.2519	87.1973	86.6896	1.9269e-01	1.9002e+00
45	TAF130224	85.6649	86.6147	86.1418	2.2983e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	1.8724e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2245	1.0988e-01	1.9010e+00
48	TAI130048	86.4632	87.5140	86.9761	2.8777e-01	1.9002e+00
49	TAI130136	85.8717	86.6070	86.2157	1.9915e-01	1.9002e+00
50	TAI130224	86.5988	87.8624	87.2390	3.3626e-01	1.9002e+00
51	TAI130312	86.0714	87.1246	86.5014	2.3864e-01	1.9002e+00
52	TRR130000	84.9330	85.9844	85.4712	2.5539e-01	1.9002e+00
53	TSI000001	80.3928	81.1330	80.8661	1.4990e-01	1.9001e+00
54	TSI000002	75.4744	76.7451	76.0633	3.1376e-01	1.9000e+00
55	TSO000001	74.8681	75.6129	75.2682	1.8816e-01	1.9000e+00
56	TSO000002	75.4145	76.3703	75.8904	2.0037e-01	1.9000e+00
57	TAF020136	85.6267	86.4723	86.0499	1.8112e-01	1.9002e+00
58	TAF120312	85.8040	86.7513	86.2841	2.6207e-01	1.9002e+00
59	TAF130312	85.6144	86.3517	85.9600	1.6480e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4764	2.4484e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4914	2.5648e-03	0.0000e+00
62	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5185	1.8950e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3370	6.9053e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3604	1.9730e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4292	1.4797e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4684	1.3381e-03	0.0000e+00
72	EMPTY	0.4785	0.4883	0.4833	1.2041e-03	0.0000e+00
73	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5178	9.6655e-04	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5712	6.9053e-04	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5949	1.8082e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6169	2.3365e-03	0.0000e+00
80	PAN020136	3.6857	4.3724	3.9436	1.5711e-01	8.7006e-01
81	PAN050136	6.4577	7.5258	6.8910	2.1215e-01	1.6801e+00
82	PAN070136	4.1261	4.8127	4.4434	1.3202e-01	8.7007e-01
83	PAN080136	1.8664	2.1716	2.0297	8.3020e-02	8.7001e-01
84	PAN090136	2.5751	2.8803	2.7201	8.1925e-02	8.7003e-01
85	PAN100136	-0.0307	0.3508	0.1540	8.3134e-02	8.7000e-01
86	PAN105136	0.8151	1.0440	0.9097	6.2725e-02	8.7000e-01
87	PAN110136	1.1761	1.4813	1.3226	8.1328e-02	8.7001e-01
88	PAN115136	1.2435	1.6250	1.4739	8.3704e-02	8.7001e-01
89	PAN120136	1.6060	1.8349	1.6792	6.3478e-02	8.7001e-01
90	PAN125136	1.5649	1.9464	1.7221	8.6386e-02	8.7001e-01
91	PAN130136	0.8004	1.0293	0.9362	6.7698e-02	8.7000e-01
92	PAN120048	0.7924	1.1739	1.0152	9.3555e-02	8.7000e-01
93	PAN130048	2.7497	3.2074	2.9969	9.5714e-02	8.7003e-01
94	PAN120224	0.4257	0.8835	0.6454	9.3301e-02	8.7000e-01
95	PAN130224	2.4401	2.7453	2.6324	8.0447e-02	8.7002e-01
96	PAN120312	2.1350	2.5164	2.3043	1.0258e-01	8.7002e-01
97	PAN130312	2.5898	2.9713	2.8080	8.4438e-02	8.7003e-01
98	PAB000136	26.4601	26.6890	26.5590	6.0192e-02	5.8379e-01
99	PAB100136	25.7286	25.9117	25.8192	4.8489e-02	5.8358e-01
100	PAB125136	25.4354	25.5728	25.4968	4.2992e-02	5.8349e-01

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

10 of 11

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.2635	26.5077	26.3636	6.8390e-02	7.5289e-01
102	PRV000001	24.4677	24.5897	24.5165	6.0409e-02	7.5250e-01
103	PSR000001	25.1321	25.2542	25.1394	2.9284e-02	7.5263e-01
104	PFM000001	21.8512	22.5836	22.2283	1.6506e-01	5.0308e-01
105	PAN000136	26.8499	30.9698	29.0746	9.0145e-01	4.9205e+00
106	PFM000002	21.0696	21.9925	21.6935	1.8305e-01	2.0722e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	1.0840	-3.0148	3.0057e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0043	2.1249e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0415	1.1327e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0562	9.8569e-02	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0073	9.8569e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0174	1.0942e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0337	1.1497e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0837	1.0259e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.4641	1.1627e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.0285	1.3009e+00	8.1000e+00
120	IPW000003	-1.5750	4.2750	0.2970	1.3042e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.5515e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1551	2.9277e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1491	4.2038e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.3087e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.4681e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0099	9.4125e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0077	7.3716e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0042	9.7935e-02	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0188	9.8648e-02	4.1000e+00
133	IHT000006	-0.3193	0.0714	-0.0185	1.0595e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0084	7.5283e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0095	8.6541e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0158	7.1136e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
138	IHT000011	-0.0338	0.3568	0.0209	9.6976e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0152	1.0617e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0093	1.0849e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0299	1.0617e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0036	7.3716e-02	4.1000e+00
143	IHT000016	-0.2592	0.3268	0.0182	1.1223e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0144	2.5600e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0031	1.2534e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1961	9.0412e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0237	1.0885e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0026	9.3461e-02	4.1000e+00
149	IHT000022	-0.0939	0.2967	-0.0314	1.0014e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0082	7.1136e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0454	8.7880e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0215	8.8321e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0072	6.7888e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0161	6.8459e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0006	1.1049e-01	4.1000e+00

Test: Jul31_08

sum1

Date: Tue Jul 31 11:20:08 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0140	7.9017e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0153	8.7880e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0254	1.2409e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	-0.0138	7.2330e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	-0.0063	8.2393e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	8.3612e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0206	1.0106e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0037	1.1334e-01	4.1000e+00

Test: Jul31_08

sum2

Date: Tue Jul 31 11:20:08 1990

Page: 1

Velocity 1 = 12.0357 (ft/sec) (+/- 2.0168 %)
Velocity 2 = 11.8833 (ft/sec) (+/- 1.7228 %)
Pressure drop = 1.0333 (psi)
Tsats in = 243.5170 (deg F) Tsats out = 241.1711 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft²) (+/- 2826.0466 %)
Phi outer = 0.0000 (kBtu/hr-ft²) (+/- 4360.1133 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1268	1.7180e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9551	1.2261e-01	1.9000e+00
2	TFM000001	86.4227	87.1591	86.7343	2.0906e-01	1.9002e+00
3	TIN000001	85.5247	86.2626	85.8347	1.5124e-01	1.9002e+00
4	TRV000001	85.8999	86.8441	86.3417	2.0777e-01	1.9002e+00
5	TSR000001	86.0064	86.6379	86.2816	1.6597e-01	1.9002e+00
6	TAO020136	79.7356	80.6889	80.2890	2.6326e-01	1.9001e+00
7	TAO050136	85.9734	86.6047	86.2955	1.5661e-01	1.9002e+00
8	TAO070136	86.0853	86.8239	86.3979	1.6535e-01	1.9002e+00
9	TAO080136	85.8750	86.5061	86.1842	1.5964e-01	1.9002e+00
10	TAO090136	86.5477	87.2839	86.8975	1.9708e-01	1.9002e+00
11	TAO100136	85.7950	86.4272	86.1518	1.7161e-01	1.9002e+00
12	TAO105136	86.7180	87.5606	87.1932	2.3651e-01	1.9002e+00
13	TAO110136	86.1797	86.9122	86.5658	1.6744e-01	1.9002e+00
14	TAO115136	86.3296	87.2780	86.7405	2.1197e-01	1.9002e+00
15	TAO120136	85.9490	86.4757	86.2158	1.3276e-01	1.9002e+00
16	TAO125136	86.5890	87.2207	86.9926	1.4926e-01	1.9002e+00
17	TAO130136	85.8247	86.4540	86.1671	1.5950e-01	1.9002e+00
18	TAO120048	73.3897	74.0284	73.6938	1.7235e-01	1.9000e+00
19	TAO130048	85.6787	86.3104	86.0438	1.6076e-01	1.9002e+00
20	TAO120224	85.9940	86.8357	86.3979	1.7236e-01	1.9002e+00
21	TAO130224	86.0650	86.6953	86.3952	1.6440e-01	1.9002e+00
22	TAO120312	86.1840	86.8166	86.4379	1.3756e-01	1.9002e+00
23	TAO130312	85.8512	86.4830	86.2035	1.5268e-01	1.9002e+00
24	TRT020000	86.4559	87.2997	86.8328	2.2876e-01	1.9002e+00
25	TRT070000	86.2277	86.9672	86.6227	1.9497e-01	1.9002e+00
26	TRT100000	86.5080	87.3483	86.8644	1.9387e-01	1.9002e+00
27	TRT120000	86.3117	86.9431	86.5698	1.3935e-01	1.9002e+00
28	TRT125000	86.2001	87.0372	86.6299	1.9043e-01	1.9002e+00
29	TRT130000	86.1161	86.8514	86.4484	1.4615e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6853	2.0717e-01	1.9011e+00
31	TAF050136	86.4580	87.1928	86.8313	1.7151e-01	1.9002e+00
32	TAF070136	86.6610	87.5005	87.1107	2.2330e-01	1.9002e+00
33	TAF080136	86.4245	87.0549	86.6952	1.6715e-01	1.9002e+00
34	TAF090136	73.7287	74.6842	74.2446	2.5893e-01	1.9000e+00
35	TAF100136	86.1605	86.8982	86.5882	1.6297e-01	1.9002e+00
36	TAF105136	85.9694	87.0168	86.5252	2.8252e-01	1.9002e+00
37	TAF110136	85.9973	86.6287	86.3664	1.6495e-01	1.9002e+00
38	TAF115136	86.5946	87.3298	86.9527	2.1944e-01	1.9002e+00
39	TAF120136	86.3240	86.9530	86.6855	1.3584e-01	1.9002e+00
40	TAF125136	86.3057	87.3504	86.7902	2.8573e-01	1.9002e+00
41	TAF130136	86.1870	87.0281	86.6419	1.7474e-01	1.9002e+00
42	TAF120048	86.5510	87.3960	87.0316	2.2208e-01	1.9002e+00
43	TAF130048	86.2614	86.9968	86.6194	1.6754e-01	1.9002e+00
44	TAF120224	86.2519	87.0927	86.6597	1.8521e-01	1.9002e+00
45	TAF130224	85.7701	86.5093	86.1387	1.8414e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0819	1.9741e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2308	1.1185e-01	1.9010e+00
48	TAI130048	86.4625	87.4090	86.9135	2.8846e-01	1.9002e+00
49	TAI130136	85.7660	86.7113	86.1540	2.2200e-01	1.9002e+00
50	TAI130224	86.5988	87.7574	87.2800	2.9637e-01	1.9002e+00
51	TAI130312	86.0720	86.8092	86.5079	1.8864e-01	1.9002e+00
52	TRR130000	84.8278	85.9831	85.5055	2.7615e-01	1.9002e+00
53	TSI000001	80.3928	81.2379	80.8411	1.6054e-01	1.9001e+00
54	TSI000002	75.4744	76.5327	76.0427	2.6597e-01	1.9000e+00
55	TSO000001	74.7614	75.6137	75.2568	1.7466e-01	1.9000e+00
56	TSO000002	75.4145	76.2644	75.8697	2.0439e-01	1.9000e+00
57	TAF020136	85.7324	86.3666	86.0262	1.6177e-01	1.9002e+00
58	TAF120312	85.6989	86.7513	86.2444	2.9005e-01	1.9002e+00
59	TAF130312	85.5102	86.2465	85.9412	1.7083e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4771	2.2287e-03	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4927	1.4934e-03	0.0000e+00
62	EMPTY	0.4980	0.5078	0.5048	2.6022e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5221	1.3508e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3377	1.8234e-03	0.0000e+00
65	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3761	6.9754e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3956	6.9754e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4103	6.9754e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4296	6.9754e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4444	6.9754e-04	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4688	6.9754e-04	0.0000e+00
72	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5200	2.4662e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5374	1.1827e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5522	1.3508e-03	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5728	2.2737e-03	0.0000e+00
78	EMPTY	0.5957	0.6006	0.5958	6.9754e-04	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6202	6.9754e-04	0.0000e+00
80	PAN020136	3.5331	4.3724	3.9084	1.7949e-01	8.7005e-01
81	PAN050136	6.6102	7.2206	6.8967	1.8330e-01	1.6801e+00
82	PAN070136	4.2023	4.7364	4.4172	1.2906e-01	8.7007e-01
83	PAN080136	1.8664	2.1716	2.0065	9.8921e-02	8.7001e-01
84	PAN090136	2.4988	2.8040	2.7043	8.1227e-02	8.7003e-01
85	PAN100136	-0.1070	0.2745	0.1173	7.8500e-02	8.7000e-01
86	PAN105136	0.8151	1.0440	0.9241	6.2294e-02	8.7000e-01
87	PAN110136	1.1761	1.4813	1.3084	7.5936e-02	8.7001e-01
88	PAN115136	1.3198	1.7013	1.4677	8.0030e-02	8.7001e-01
89	PAN120136	1.5297	1.8349	1.6932	7.4688e-02	8.7001e-01
90	PAN125136	1.5649	1.8701	1.6521	7.4688e-02	8.7001e-01
91	PAN130136	0.8004	1.0293	0.9187	6.9753e-02	8.7000e-01
92	PAN120048	0.8687	1.1739	1.0088	8.2916e-02	8.7000e-01
93	PAN130048	2.8260	3.2837	3.0144	1.0105e-01	8.7003e-01
94	PAN120224	0.5020	0.8835	0.6359	9.1514e-02	8.7000e-01
95	PAN130224	2.4401	2.7453	2.6114	7.5544e-02	8.7002e-01
96	PAN120312	2.0587	2.5164	2.2969	1.0520e-01	8.7002e-01
97	PAN130312	2.6661	2.9713	2.7813	7.8058e-02	8.7003e-01
98	PAB000136	26.5059	26.6890	26.5983	4.9875e-02	5.8380e-01
99	PAB100136	25.7743	25.9574	25.8678	3.7329e-02	5.8359e-01
100	PAB125136	25.4354	25.5728	25.5242	4.1165e-02	5.8350e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.2635	26.5077	26.3358	7.0117e-02	7.5288e-01
102	PRV000001	24.3456	24.5897	24.4726	3.4877e-02	7.5249e-01
103	PSR000001	25.1321	25.2542	25.1521	4.5586e-02	7.5263e-01
104	PFM000001	21.8512	22.4005	22.1576	1.2887e-01	5.0306e-01
105	PAN000136	26.8499	30.5120	28.6062	9.3135e-01	4.9205e+00
106	PFM000002	21.1535	21.7911	21.5956	1.5895e-01	2.0716e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	1.7822	-3.9076	3.5427e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0043	2.1453e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0555	1.0486e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0182	1.0548e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0411	1.0955e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0366	1.0424e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0256	1.1560e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0464	1.2646e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.2720	1.1847e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.2826	1.2672e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4546	1.1914e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1644	2.7016e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0680	3.1257e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0539	3.5282e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.6801e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.0535e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	2.5471e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.2124e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0172	7.9736e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0007	7.3601e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0082	7.3601e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0135	1.0625e-01	4.1000e+00
132	IHT000005	-0.2742	0.3117	0.0247	1.1348e-01	4.1000e+00
133	IHT000006	-0.3193	0.0714	0.0076	1.0076e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0248	8.8965e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0264	1.0204e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	8.4477e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0010	8.4860e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0220	8.9148e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0093	9.8648e-02	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0103	8.4860e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0517	1.1219e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0005	3.9046e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0599	3.0245e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	0.0031	1.1838e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1765	8.9148e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0383	9.5812e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0159	9.6990e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0022	9.8483e-02	4.1000e+00
150	IHT000023	-0.2066	0.3793	0.0047	7.8092e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0376	7.9736e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0130	8.6187e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0071	9.7323e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0206	7.2937e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0031	1.0851e-01	4.1000e+00

Test: Jul31_08

sum2

Date: Tue Jul 31 11:20:08 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0105	9.5812e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0314	1.1014e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0508	1.1362e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0187	1.0076e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0222	9.9303e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0108	9.7324e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0136	1.3210e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0057	9.8648e-02	4.1000e+00

Test: Jul31_08 dif Date: Tue Jul 31 11:20:08 1990 Page: 1

Velocity 1 = 0.019100 (ft/sec)

Velocity 2 = 0.026700 (ft/sec)

Pressure Drop = 0.016900 (psi)

Tsat in = 0.084595 (deg F) Tsat out = 0.060898 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0412	0.0555
1	TRF000002	0.0346	0.0468
2	TFM000001	0.0128	0.0148
3	TIN000001	0.0191	0.0222
4	TRV000001	0.0002	0.0002
5	TSR000001	0.0157	0.0182
6	TAO020136	0.0313	0.0390
7	TAO050136	0.0190	0.0220
8	TAO070136	0.0338	0.0391
9	TAO080136	0.0486	0.0564
10	TAO090136	0.0257	0.0296
11	TAO100136	0.0393	0.0456
12	TAO105136	0.0137	0.0157
13	TAO110136	0.0198	0.0229
14	TAO115136	0.0402	0.0463
15	TAO120136	0.0242	0.0281
16	TAO125136	0.0173	0.0199
17	TAO130136	0.0436	0.0506
18	TAO120048	0.0196	0.0266
19	TAO130048	0.0222	0.0258
20	TAO120224	0.0005	0.0006
21	TAO130224	0.0272	0.0315
22	TAO120312	0.0287	0.0332
23	TAO130312	0.0058	0.0067
24	TRT020000	0.0198	0.0228
25	TRT070000	0.0322	0.0372
26	TRT100000	0.0434	0.0499
27	TRT120000	0.0454	0.0524
28	TRT125000	0.0148	0.0171
29	TRT130000	0.0254	0.0294
30	EMPTY	0.0567	0.1431
31	TAF050136	0.0054	0.0062
32	TAF070136	0.0582	0.0668
33	TAF080136	0.0451	0.0520
34	TAF090136	0.0238	0.0321
35	TAF100136	0.0189	0.0218
36	TAF105136	0.0102	0.0118
37	TAF110136	0.0097	0.0112
38	TAF115136	0.0329	0.0378
39	TAF120136	0.0454	0.0523
40	TAF125136	0.0887	0.1021
41	TAF130136	0.0173	0.0200
42	TAF120048	0.1065	0.1222
43	TAF130048	0.0119	0.0137
44	TAF120224	0.0299	0.0345
45	TAF130224	0.0031	0.0036

#	Name	Abs Diff	%Diff
46	EMPTY	0.0764	0.2002
47	EMPTY	0.0063	0.0161
48	TAI130048	0.0626	0.0720
49	TAI130136	0.0617	0.0716
50	TAI130224	0.0410	0.0470
51	TAI130312	0.0065	0.0075
52	TRR130000	0.0343	0.0401
53	TSI000001	0.0250	0.0309
54	TSI000002	0.0206	0.0271
55	TSO000001	0.0114	0.0152
56	TSO000002	0.0207	0.0273
57	TAF020136	0.0237	0.0275
58	TAF120312	0.0397	0.0460
59	TAF130312	0.0188	0.0219
60	EMPTY	0.0007	0.1469
61	EMPTY	0.0013	0.2646
62	EMPTY	0.0019	0.3778
63	EMPTY	0.0036	0.6943
64	EMPTY	0.0007	0.2077
65	EMPTY	0.0009	0.2497
66	EMPTY	0.0001	0.0266
67	EMPTY	0.0001	0.0253
68	EMPTY	0.0003	0.0732
69	EMPTY	0.0004	0.0932
70	EMPTY	0.0001	0.0225
71	EMPTY	0.0004	0.0854
72	EMPTY	0.0001	0.0207
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0022	0.4249
75	EMPTY	0.0004	0.0745
76	EMPTY	0.0004	0.0725
77	EMPTY	0.0016	0.2801
78	EMPTY	0.0009	0.1513
79	EMPTY	0.0033	0.5349
80	PAN020136	0.0352	0.8926
81	PAN050136	0.0057	0.0827
82	PAN070136	0.0262	0.5896
83	PAN080136	0.0232	1.1430
84	PAN090136	0.0158	0.5809
85	PAN100136	0.0367	23.8312
86	PAN105136	0.0144	1.5829
87	PAN110136	0.0142	1.0736
88	PAN115136	0.0062	0.4206
89	PAN120136	0.0140	0.8337
90	PAN125136	0.0700	4.0648
91	PAN130136	0.0175	1.8693
92	PAN120048	0.0064	0.6304
93	PAN130048	0.0175	0.5839
94	PAN120224	0.0095	1.4720
95	PAN130224	0.0210	0.7978
96	PAN120312	0.0074	0.3211
97	PAN130312	0.0267	0.9509
98	PAB000136	0.0393	0.1480
99	PAB100136	0.0486	0.1882
100	PAB125136	0.0274	0.1075

Test: Jul31_08

dif

Date: Tue Jul 31 11:20:08 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0278	0.1054
102	PRV000001	0.0439	0.1791
103	PSR000001	0.0127	0.0505
104	PFM000001	0.0707	0.3181
105	PAN000136	0.4684	1.6110
106	PFM000002	0.0979	0.4513
107	EMPTY	0.0001	2.0408
108	EMPTY	0.8928	29.6139
109	EMPTY	0.0000	0.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0140	33.7349
113	VPW000002	0.0380	67.6157
114	VPW000003	0.0338	463.0136
115	VPW000004	0.0192	110.3448
116	VPW000005	0.0081	24.0356
117	VPW000006	0.0373	44.5639
118	IPW000001	0.1921	41.3919
119	IPW000002	0.2541	891.5790
120	IPW000003	0.1576	53.0640
121	IPW000004	0.0082	5.2497
122	IPW000005	0.0871	56.1573
123	IPW000006	0.0952	63.8498
124	EMPTY	0.0006	3.0769
125	EMPTY	0.0009	6.7669
126	EMPTY	0.0003	1.8634
127	EMPTY	0.0008	5.1948
128	IHT000001	0.0073	73.7374
129	IHT000002	0.0042	120.0000
130	IHT000003	0.0159	206.4935
131	IHT000004	0.0177	421.4286
132	IHT000005	0.0059	31.3830
133	IHT000006	0.0261	141.0811
134	IHT000007	0.0164	195.2381
135	IHT000008	0.0169	177.8947
136	IHT000009	0.0235	148.7342
137	IHT000010	0.0225	104.6512
138	IHT000011	0.0011	5.2632
139	IHT000012	0.0059	38.8158
140	IHT000013	0.0010	10.7527
141	IHT000014	0.0218	72.9097
142	IHT000015	0.0041	113.8889
143	IHT000016	0.0017	9.3407
144	IHT000017	0.0455	315.9723
145	IHT000018	0.0062	200.0000
146	IHT000019	0.0196	9.9949
147	IHT000020	0.0146	61.6034
148	IHT000021	0.0133	511.5385
149	IHT000022	0.0292	92.9936
150	IHT000023	0.0035	42.6829
151	IHT000024	0.0078	17.1806
152	IHT000025	0.0085	39.5349
153	IHT000026	0.0001	1.3889
154	IHT000027	0.0045	27.9503
155	IHT000028	0.0037	616.6667

Test: Jul31_08

dif

Date: Tue Jul 31 11:20:08 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0245	175.0000
157	IHT000030	0.0161	105.2287
158	IHT000031	0.0254	100.0000
159	IHT000032	0.0325	235.5072
160	IHT000033	0.0285	452.3810
161	IHT000034	0.0041	27.5168
162	IHT000035	0.0070	33.9806
163	IHT000036	0.0020	54.0541

Velocity 1 = 10.0212 (ft/sec) (+/- 2.3367 %)
Velocity 2 = 9.9506 (ft/sec) (+/- 1.7748 %)
Pressure drop = -0.7484 (psi)
Tsats in = 238.9376 (deg F) Tsats out = 240.4906 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5368.3350 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2693.6931 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRFC000001	73.8393	74.4796	74.1125	1.7800e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9302	1.4745e-01	1.9000e+00
2	TFM0000001	86.5277	87.3690	86.9380	1.9615e-01	1.9002e+00
3	TIN0000001	85.7355	86.3678	86.0497	1.6426e-01	1.9002e+00
4	TRV0000001	86.2143	86.9492	86.4604	1.8052e-01	1.9002e+00
5	TSR0000001	86.0064	86.6379	86.3451	1.7548e-01	1.9002e+00
6	TAO020136	79.7356	80.5833	80.2250	2.1382e-01	1.9001e+00
7	TAO050136	86.1826	86.9167	86.4751	1.5920e-01	1.9002e+00
8	TAO070136	86.1913	86.8245	86.5479	1.8070e-01	1.9002e+00
9	TAO080136	86.0840	86.9235	86.4350	1.9734e-01	1.9002e+00
10	TAO090136	86.6523	87.4930	87.0247	1.8773e-01	1.9002e+00
11	TAO100136	86.0050	86.6365	86.2979	1.5376e-01	1.9002e+00
12	TAO105136	87.0340	87.8761	87.3857	2.1335e-01	1.9002e+00
13	TAO110136	86.2824	87.1204	86.7620	1.9063e-01	1.9002e+00
14	TAO115136	86.5402	87.4878	86.8922	2.3743e-01	1.9002e+00
15	TAO120136	86.1592	86.7910	86.3723	1.4359e-01	1.9002e+00
16	TAO125136	86.7988	87.4304	87.1208	1.6098e-01	1.9002e+00
17	TAO130136	86.0319	86.6611	86.3195	1.6085e-01	1.9002e+00
18	TAO120048	73.6020	74.2407	73.9319	1.8638e-01	1.9000e+00
19	TAO130048	85.8882	86.5193	86.1977	1.6917e-01	1.9002e+00
20	TAO120224	86.3092	86.8362	86.5642	1.6068e-01	1.9002e+00
21	TAO130224	86.1707	86.9029	86.5570	1.8849e-01	1.9002e+00
22	TAO120312	86.1840	87.0271	86.6286	1.9772e-01	1.9002e+00
23	TAO130312	86.0609	86.6926	86.3704	1.8207e-01	1.9002e+00
24	TRT020000	86.5617	87.4047	86.9813	2.3277e-01	1.9002e+00
25	TRT070000	86.4399	87.1793	86.8095	1.9919e-01	1.9002e+00
26	TRT100000	86.6131	87.4527	87.0394	1.5796e-01	1.9002e+00
27	TRT120000	86.5216	87.1529	86.7682	1.3890e-01	1.9002e+00
28	TRT125000	86.3038	87.1433	86.7966	2.0019e-01	1.9002e+00
29	TRT130000	86.3253	86.8520	86.5927	1.6761e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.0553e-01	1.9011e+00
31	TAF050136	86.5637	87.2979	87.0058	1.7531e-01	1.9002e+00
32	TAF070136	86.8699	87.8125	87.2749	2.1067e-01	1.9002e+00
33	TAF080136	86.6330	87.2628	86.8960	1.4566e-01	1.9002e+00
34	TAF090136	73.7287	75.0027	74.3890	2.9883e-01	1.9000e+00
35	TAF100136	86.3712	87.3189	86.7861	1.8723e-01	1.9002e+00
36	TAF105136	86.1779	87.2246	86.6744	2.4420e-01	1.9002e+00
37	TAF110136	86.2066	87.0470	86.5619	1.9660e-01	1.9002e+00
38	TAF115136	86.6990	87.5398	87.1298	2.1346e-01	1.9002e+00
39	TAF120136	86.6367	87.0587	86.8748	1.2005e-01	1.9002e+00
40	TAF125136	86.6203	87.4554	87.0471	1.9478e-01	1.9002e+00
41	TAF130136	86.3966	87.2376	86.7856	1.7414e-01	1.9002e+00
42	TAF120048	86.6568	87.6074	87.1700	2.2069e-01	1.9002e+00
43	TAF130048	86.3656	87.2065	86.8051	2.1093e-01	1.9002e+00
44	TAF120224	86.3570	87.1973	86.8214	1.9115e-01	1.9002e+00
45	TAF130224	85.9818	86.7198	86.3002	1.8264e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.0332e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2475	1.1514e-01	1.9010e+00
48	TAI130048	86.3575	87.7239	87.0746	3.4279e-01	1.9002e+00
49	TAI130136	85.8703	86.7113	86.2970	1.7927e-01	1.9002e+00
50	TAI130224	86.7039	87.9674	87.3843	3.2831e-01	1.9002e+00
51	TAI130312	86.1768	87.1243	86.6381	2.3479e-01	1.9002e+00
52	TRR130000	85.0375	86.0883	85.5736	2.4500e-01	1.9002e+00
53	TSI000001	80.3928	81.0274	80.7163	1.8035e-01	1.9001e+00
54	TSI000002	75.5797	76.7439	76.1665	2.9793e-01	1.9000e+00
55	TSO000001	74.9745	75.8258	75.4025	1.9415e-01	1.9000e+00
56	TSO000002	75.6266	76.2644	75.9603	1.8580e-01	1.9000e+00
57	TAF020136	85.7333	86.5782	86.1962	1.8586e-01	1.9002e+00
58	TAF120312	86.0142	86.9608	86.4877	2.6800e-01	1.9002e+00
59	TAF130312	85.8243	86.4563	86.1633	1.6512e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4823	2.0432e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4977	1.3381e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5100	2.4484e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5264	1.9730e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3417	6.9053e-04	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3620	1.7115e-03	0.0000e+00
66	EMPTY	0.3760	0.3857	0.3807	1.3811e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.4001	1.1714e-03	0.0000e+00
68	EMPTY	0.4102	0.4199	0.4147	1.5314e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4317	2.4344e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4486	1.6028e-03	0.0000e+00
71	EMPTY	0.4639	0.4736	0.4730	1.8821e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4860	2.4583e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5076	9.6655e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
75	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5567	6.9053e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5761	6.9053e-04	0.0000e+00
78	EMPTY	0.5957	0.6006	0.5999	1.7115e-03	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6232	2.3675e-03	0.0000e+00
80	PAN020136	-2.4941	-2.1889	-2.3506	8.2489e-02	8.7002e-01
81	PAN050136	-5.1390	-4.5287	-4.8766	1.4472e-01	1.6800e+00
82	PAN070136	-3.5796	-3.2745	-3.4423	8.5820e-02	8.7004e-01
83	PAN080136	-2.0246	-1.7194	-1.8659	7.0365e-02	8.7001e-01
84	PAN090136	-1.5448	-1.2396	-1.4319	6.7610e-02	8.7001e-01
85	PAN100136	-3.3876	-3.0061	-3.1740	8.9877e-02	8.7004e-01
86	PAN105136	-1.0160	-0.8634	-0.9061	4.6650e-02	8.7000e-01
87	PAN110136	-0.8076	-0.5024	-0.6412	6.4829e-02	8.7000e-01
88	PAN115136	-0.6639	-0.3587	-0.5464	6.7557e-02	8.7000e-01
89	PAN120136	-0.5302	-0.3014	-0.4021	5.6508e-02	8.7000e-01
90	PAN125136	-0.4950	-0.3424	-0.4035	5.9697e-02	8.7000e-01
91	PAN130136	-1.0307	-0.7255	-0.8796	6.9771e-02	8.7000e-01
92	PAN120048	-2.7934	-2.5645	-2.6973	5.7280e-02	8.7003e-01
93	PAN130048	-1.2939	-0.9887	-1.1352	8.1328e-02	8.7000e-01
94	PAN120224	-3.0075	-2.7787	-2.8931	4.6879e-02	8.7003e-01
95	PAN130224	-1.5271	-1.2220	-1.3746	7.5511e-02	8.7001e-01
96	PAN120312	-1.8323	-1.4509	-1.6080	8.2157e-02	8.7001e-01
97	PAN130312	-1.5301	-1.2249	-1.3454	8.4551e-02	8.7001e-01
98	PAB000136	24.4459	24.6290	24.5347	4.1781e-02	5.8323e-01
99	PAB100136	25.0877	25.2250	25.1710	3.9982e-02	5.8340e-01
100	PAB125136	25.1608	25.2523	25.2194	2.6223e-02	5.8342e-01

Test: Jul31_09

sum1

Date: Tue Jul 31 11:22:58 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.1883	24.5545	24.2860	6.5249e-02	7.5245e-01
102	PRV000001	24.4677	24.5897	24.5702	4.5206e-02	7.5251e-01
103	PSR000001	25.0100	25.1321	25.1199	3.6993e-02	7.5262e-01
104	PFM000001	15.0763	15.6256	15.3125	1.1564e-01	5.0146e-01
105	PAN000136	-21.6730	-20.2997	-20.7209	3.0449e-01	4.9203e+00
106	PFM000002	14.8946	15.2638	15.0953	9.2465e-02	2.0353e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	0.9912	-5.1275	3.4215e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0036	2.3778e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0649	9.4702e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0484	9.7935e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0152	1.0617e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0213	9.1354e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0376	1.0440e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0485	1.0595e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4641	9.4087e-01	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.1846	1.3775e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.3042e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1269	2.5266e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0672	3.2476e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.0501e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.0261e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3531e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.4662e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0021	9.8963e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0004	8.2864e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0080	8.2864e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0232	1.1223e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0383	1.1838e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0028	1.0358e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0123	7.9017e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0014	9.4125e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0191	9.8332e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0093	1.0106e-01	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0416	1.1306e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0042	4.6855e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0416	1.1306e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0535	3.2751e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0071	1.2577e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1804	9.2456e-02	4.1000e+00
147	IHT000020	-0.3005	0.2855	0.0277	1.2124e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	-0.0035	5.5243e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0454	5.5243e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0240	9.6655e-02	4.1000e+00

Test: Jul31_09

sum1

Date: Tue Jul 31 11:22:58 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0179	7.5283e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0036	7.3716e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0058	1.0470e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0018	8.4262e-02	4.1000e+00
160	IHT000033	-0.0376	0.5484	0.0171	1.1189e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0032	8.6810e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0314	9.2034e-02	4.1000e+00

Velocity 1 = 10.0289 (ft/sec) (+/- 2.3349 %)
Velocity 2 = 9.9447 (ft/sec) (+/- 1.7751 %)
Pressure drop = -0.7572 (psi)
Tsats in = 239.0338 (deg F) Tsats out = 240.5143 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 19277.1133 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4072.1177 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1790	1.9925e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9898	1.4694e-01	1.9000e+00
2	TFM000001	86.5284	87.3695	87.0045	2.0919e-01	1.9002e+00
3	TIN000001	85.7355	86.4734	86.1099	1.7354e-01	1.9002e+00
4	TRV000001	86.1092	86.9498	86.5598	1.8433e-01	1.9002e+00
5	TSR000001	86.0064	86.6379	86.4058	1.4724e-01	1.9002e+00
6	TAO020136	79.9474	80.7950	80.3063	2.0602e-01	1.9001e+00
7	TAO050136	86.1826	86.9189	86.5818	2.0902e-01	1.9002e+00
8	TAO070136	85.9802	87.0349	86.6175	2.4357e-01	1.9002e+00
9	TAO080136	86.1892	86.8202	86.4533	1.6069e-01	1.9002e+00
10	TAO090136	86.6523	87.4936	87.0903	1.9591e-01	1.9002e+00
11	TAO100136	86.0050	86.7422	86.3833	1.7970e-01	1.9002e+00
12	TAO105136	87.0340	87.9816	87.4767	2.4403e-01	1.9002e+00
13	TAO110136	86.3880	87.3286	86.8256	2.0708e-01	1.9002e+00
14	TAO115136	86.4351	87.3830	86.9424	2.4850e-01	1.9002e+00
15	TAO120136	86.1592	86.7910	86.4776	1.8050e-01	1.9002e+00
16	TAO125136	86.7988	87.6395	87.2325	1.6301e-01	1.9002e+00
17	TAO130136	86.0319	86.8677	86.4300	1.8009e-01	1.9002e+00
18	TAO120048	73.6020	74.3468	73.9843	1.7633e-01	1.9000e+00
19	TAO130048	85.9934	86.9386	86.2834	1.9257e-01	1.9002e+00
20	TAO120224	86.2041	86.9413	86.6253	1.7979e-01	1.9002e+00
21	TAO130224	86.2733	86.9034	86.6591	1.7054e-01	1.9002e+00
22	TAO120312	86.1840	87.0266	86.6958	1.9709e-01	1.9002e+00
23	TAO130312	86.0609	86.9016	86.4989	1.8395e-01	1.9002e+00
24	TRT020000	86.5617	87.5103	87.0479	2.4609e-01	1.9002e+00
25	TRT070000	86.4399	87.2843	86.8687	1.9559e-01	1.9002e+00
26	TRT100000	86.7188	87.8726	87.1938	2.2591e-01	1.9002e+00
27	TRT120000	86.5216	87.2584	86.8527	1.6917e-01	1.9002e+00
28	TRT125000	86.5126	87.3520	86.8604	1.9875e-01	1.9002e+00
29	TRT130000	86.3253	86.9570	86.6754	1.4799e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6103	2.3656e-01	1.9011e+00
31	TAF050136	86.6673	87.5076	87.1433	2.0228e-01	1.9002e+00
32	TAF070136	86.7666	87.9175	87.3497	2.4767e-01	1.9002e+00
33	TAF080136	86.5302	87.3683	86.9764	1.9012e-01	1.9002e+00
34	TAF090136	73.9407	75.1088	74.4828	2.7251e-01	1.9000e+00
35	TAF100136	86.4762	87.2139	86.8634	1.8920e-01	1.9002e+00
36	TAF105136	85.9694	87.2252	86.7299	2.6396e-01	1.9002e+00
37	TAF110136	86.2066	87.1520	86.6443	2.0937e-01	1.9002e+00
38	TAF115136	86.6990	87.6448	87.2009	2.3988e-01	1.9002e+00
39	TAF120136	86.6367	87.2678	86.9718	1.6015e-01	1.9002e+00
40	TAF125136	86.5146	87.6637	87.1351	2.8478e-01	1.9002e+00
41	TAF130136	86.3966	87.2376	86.8602	1.7160e-01	1.9002e+00
42	TAF120048	86.8673	87.8187	87.2903	2.2606e-01	1.9002e+00
43	TAF130048	86.3656	87.2065	86.8892	1.9255e-01	1.9002e+00
44	TAF120224	86.4616	87.3028	86.8953	1.9855e-01	1.9002e+00
45	TAF130224	85.8761	86.7203	86.3799	2.1669e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1147	2.1569e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2027	9.9772e-02	1.9010e+00
48	TAI130048	86.4625	87.8295	87.1709	2.9160e-01	1.9002e+00
49	TAI130136	85.9754	86.8163	86.4022	2.0826e-01	1.9002e+00
50	TAI130224	86.9145	88.1783	87.4906	3.0626e-01	1.9002e+00
51	TAI130312	86.3872	87.0196	86.7142	1.7754e-01	1.9002e+00
52	TRR130000	85.0375	86.0888	85.6684	2.3284e-01	1.9002e+00
53	TSI000001	80.3928	81.1330	80.7770	1.8389e-01	1.9001e+00
54	TSI000002	75.5804	76.8498	76.3060	2.8488e-01	1.9000e+00
55	TSO000001	74.9745	75.8258	75.4220	1.8562e-01	1.9000e+00
56	TSO000002	75.4145	76.5823	76.0386	2.2887e-01	1.9000e+00
57	TAF020136	85.8390	86.6839	86.2507	2.1151e-01	1.9002e+00
58	TAF120312	85.9090	86.9613	86.5361	2.8148e-01	1.9002e+00
59	TAF130312	85.8243	86.5614	86.1941	1.8991e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4824	2.2241e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4973	1.7263e-03	0.0000e+00
62	EMPTY	0.5078	0.5176	0.5099	2.8191e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5257	2.3135e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3416	9.7615e-04	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3622	1.9103e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3807	9.7615e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3995	1.9103e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4142	1.8234e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4317	2.4247e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4488	1.3508e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4725	2.0584e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4857	2.4621e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5070	1.8234e-03	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5224	6.9754e-04	0.0000e+00
75	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
76	EMPTY	0.5518	0.5615	0.5566	9.9670e-04	0.0000e+00
77	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
78	EMPTY	0.5957	0.6006	0.5998	1.8234e-03	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6213	2.1215e-03	0.0000e+00
80	PAN020136	-2.5704	-2.1889	-2.3944	8.8377e-02	8.7002e-01
81	PAN050136	-5.1390	-4.6813	-4.9148	1.5291e-01	1.6800e+00
82	PAN070136	-3.6559	-3.2745	-3.4769	9.4153e-02	8.7004e-01
83	PAN080136	-2.1009	-1.7194	-1.8782	8.6481e-02	8.7001e-01
84	PAN090136	-1.6211	-1.3159	-1.4296	7.8058e-02	8.7001e-01
85	PAN100136	-3.3876	-3.0061	-3.2023	8.5299e-02	8.7004e-01
86	PAN105136	-1.0160	-0.8634	-0.9895	3.9860e-02	8.7000e-01
87	PAN110136	-0.8076	-0.5024	-0.6363	7.2262e-02	8.7000e-01
88	PAN115136	-0.6639	-0.3587	-0.5424	8.3747e-02	8.7000e-01
89	PAN120136	-0.5302	-0.3014	-0.4072	5.5753e-02	8.7000e-01
90	PAN125136	-0.5713	-0.2661	-0.4125	6.1975e-02	8.7000e-01
91	PAN130136	-1.1070	-0.7255	-0.9155	8.1105e-02	8.7000e-01
92	PAN120048	-2.8697	-2.5645	-2.7140	7.9347e-02	8.7003e-01
93	PAN130048	-1.2939	-0.9887	-1.1055	7.8026e-02	8.7000e-01
94	PAN120224	-2.9312	-2.7024	-2.7989	6.1855e-02	8.7003e-01
95	PAN130224	-1.5271	-1.1457	-1.4088	8.5386e-02	8.7001e-01
96	PAN120312	-1.8323	-1.4509	-1.6268	9.3705e-02	8.7001e-01
97	PAN130312	-1.4538	-1.2249	-1.3510	7.3955e-02	8.7001e-01
98	PAB000136	24.4459	24.6748	24.5767	5.2858e-02	5.8325e-01
99	PAB100136	25.1335	25.2708	25.2063	4.0642e-02	5.8341e-01
100	PAB125136	25.1608	25.2981	25.2299	3.6337e-02	5.8342e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.3104	24.4325	24.3752	6.1552e-02	7.5247e-01
102	PRV000001	24.4677	24.5897	24.5449	5.9458e-02	7.5251e-01
103	PSR000001	25.1321	25.2542	25.1471	4.0430e-02	7.5263e-01
104	PFM000001	15.0763	15.5340	15.3360	1.0295e-01	5.0147e-01
105	PAN000136	-21.6730	-20.2997	-20.9630	3.8596e-01	4.9203e+00
106	PFM000002	14.7940	15.2470	15.0772	1.0072e-01	2.0352e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	1.1084	-5.6517	3.7394e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0034	2.8548e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0396	1.1362e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0581	9.8648e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0013	1.2001e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0247	1.1276e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0057	1.1518e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0543	1.0640e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.6306	1.3082e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.0437	1.4259e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6137	1.0997e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1744	2.6370e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0281	3.1515e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0439	3.1934e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	2.9284e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0130	2.3483e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.7793e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	2.5391e-03	0.0000e+00
128	IHT000001	-0.3456	0.2404	0.0172	1.1960e-01	4.1000e+00
129	IHT000002	-0.2066	0.3793	0.0047	9.6318e-02	4.1000e+00
130	IHT000003	-0.0038	0.1916	0.0162	5.9734e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0334	1.1755e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0487	1.0204e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0156	8.9148e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0208	8.6187e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0304	9.5132e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0162	9.9629e-02	4.1000e+00
137	IHT000010	-0.2442	0.3418	0.0109	1.1419e-01	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0180	9.5812e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0013	1.0594e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0023	9.7490e-02	4.1000e+00
141	IHT000014	-0.0639	0.1314	0.0358	9.8648e-02	4.1000e+00
142	IHT000015	-0.3981	0.1878	0.0044	8.3705e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0398	9.8483e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0280	2.9058e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0088	9.8153e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1646	1.2229e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0304	1.1419e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0478	1.1276e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0022	9.8483e-02	4.1000e+00
150	IHT000023	-0.0113	0.3793	0.0246	8.6187e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0535	6.7148e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0170	7.2937e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0111	7.4477e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0246	8.6187e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0031	1.0851e-01	4.1000e+00

Test: Jul31_09

sum2

Date: Tue Jul 31 11:22:58 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0105	8.7123e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0155	1.1933e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0628	1.2607e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0227	9.3931e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0262	9.2540e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0148	8.4477e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0255	8.7123e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0097	1.1348e-01	4.1000e+00

Test: Jul31_09 dif Date: Tue Jul 31 11:22:58 1990 Page: 1

Velocity 1 = 0.007700 (ft/sec)

Velocity 2 = 0.005899 (ft/sec)

Pressure Drop = 0.008800 (psi)

Tsat in = 0.096191 (deg F) Tsat out = 0.023697 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0665	0.0897
1	TRF000002	0.0596	0.0806
2	TFM000001	0.0665	0.0765
3	TIN000001	0.0602	0.0700
4	TRV000001	0.0994	0.1150
5	TSR000001	0.0607	0.0703
6	TAO020136	0.0813	0.1013
7	TAO050136	0.1067	0.1234
8	TAO070136	0.0696	0.0804
9	TAO080136	0.0183	0.0212
10	TAO090136	0.0656	0.0754
11	TAO100136	0.0854	0.0990
12	TAO105136	0.0910	0.1041
13	TAO110136	0.0636	0.0733
14	TAO115136	0.0502	0.0578
15	TAO120136	0.1053	0.1219
16	TAO125136	0.1117	0.1282
17	TAO130136	0.1105	0.1280
18	TAO120048	0.0524	0.0709
19	TAO130048	0.0857	0.0994
20	TAO120224	0.0611	0.0706
21	TAO130224	0.1021	0.1180
22	TAO120312	0.0672	0.0776
23	TAO130312	0.1285	0.1488
24	TRT020000	0.0666	0.0766
25	TRT070000	0.0592	0.0682
26	TRT100000	0.1544	0.1774
27	TRT120000	0.0845	0.0974
28	TRT125000	0.0638	0.0735
29	TRT130000	0.0827	0.0955
30	EMPTY	0.0229	0.0578
31	TAF050136	0.1375	0.1580
32	TAF070136	0.0748	0.0857
33	TAF080136	0.0804	0.0925
34	TAF090136	0.0938	0.1261
35	TAF100136	0.0773	0.0891
36	TAF105136	0.0555	0.0640
37	TAF110136	0.0824	0.0952
38	TAF115136	0.0711	0.0816
39	TAF120136	0.0970	0.1117
40	TAF125136	0.0880	0.1011
41	TAF130136	0.0746	0.0860
42	TAF120048	0.1203	0.1380
43	TAF130048	0.0841	0.0969
44	TAF120224	0.0739	0.0851
45	TAF130224	0.0797	0.0923

#	Name	Abs Diff	%Diff
46	EMPTY	0.0161	0.0423
47	EMPTY	0.0448	0.1141
48	TAI130048	0.0963	0.1106
49	TAI130136	0.1052	0.1219
50	TAI130224	0.1063	0.1216
51	TAI130312	0.0761	0.0878
52	TRR130000	0.0948	0.1108
53	TSI000001	0.0607	0.0752
54	TSI000002	0.1395	0.1832
55	TSO000001	0.0195	0.0259
56	TSO000002	0.0783	0.1031
57	TAF020136	0.0545	0.0632
58	TAF120312	0.0484	0.0560
59	TAF130312	0.0308	0.0357
60	EMPTY	0.0001	0.0207
61	EMPTY	0.0004	0.0804
62	EMPTY	0.0001	0.0196
63	EMPTY	0.0007	0.1330
64	EMPTY	0.0001	0.0293
65	EMPTY	0.0002	0.0552
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0006	0.1500
68	EMPTY	0.0005	0.1206
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0002	0.0446
71	EMPTY	0.0005	0.1057
72	EMPTY	0.0003	0.0617
73	EMPTY	0.0006	0.1182
74	EMPTY	0.0002	0.0383
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0001	0.0180
77	EMPTY	0.0001	0.0174
78	EMPTY	0.0001	0.0167
79	EMPTY	0.0019	0.3049
80	PAN020136	0.0438	1.8633
81	PAN050136	0.0382	0.7833
82	PAN070136	0.0346	1.0051
83	PAN080136	0.0123	0.6592
84	PAN090136	0.0023	0.1606
85	PAN100136	0.0283	0.8916
86	PAN105136	0.0834	9.2043
87	PAN110136	0.0049	0.7642
88	PAN115136	0.0040	0.7321
89	PAN120136	0.0051	1.2683
90	PAN125136	0.0090	2.2305
91	PAN130136	0.0359	4.0814
92	PAN120048	0.0167	0.6191
93	PAN130048	0.0297	2.6163
94	PAN120224	0.0942	3.2560
95	PAN130224	0.0342	2.4880
96	PAN120312	0.0188	1.1691
97	PAN130312	0.0056	0.4162
98	PAB000136	0.0420	0.1712
99	PAB100136	0.0353	0.1402
100	PAB125136	0.0105	0.0416

Test: Jul31_09

dif

Date: Tue Jul 31 11:22:58 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0892	0.3673
102	PRV000001	0.0253	0.1030
103	PSR000001	0.0272	0.1083
104	PFM000001	0.0235	0.1535
105	PAN000136	0.2421	1.1684
106	PFM000002	0.0181	0.1199
107	EMPTY	0.0001	2.0408
108	EMPTY	0.5242	10.2233
109	EMPTY	0.0002	5.5556
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0253	38.9831
113	VPW000002	0.0097	20.0413
114	VPW000003	0.0139	91.4474
115	VPW000004	0.0034	15.9625
116	VPW000005	0.0319	84.8404
117	VPW000006	0.0058	11.9588
118	IPW000001	0.1665	35.8759
119	IPW000002	0.1409	76.3272
120	IPW000003	0.3167	106.6330
121	IPW000004	0.0475	37.4310
122	IPW000005	0.0391	58.1845
123	IPW000006	0.0076	14.7573
124	EMPTY	0.0003	1.5151
125	EMPTY	0.0008	5.7971
126	EMPTY	0.0002	1.2422
127	EMPTY	0.0008	5.1613
128	IHT000001	0.0151	719.0477
129	IHT000002	0.0043	1075.0001
130	IHT000003	0.0082	102.5000
131	IHT000004	0.0102	43.9655
132	IHT000005	0.0104	27.1540
133	IHT000006	0.0184	657.1428
134	IHT000007	0.0085	69.1057
135	IHT000008	0.0014	4.8276
136	IHT000009	0.0043	36.1345
137	IHT000010	0.0129	645.0000
138	IHT000011	0.0166	1185.7144
139	IHT000012	0.0178	93.1937
140	IHT000013	0.0070	75.2688
141	IHT000014	0.0058	13.9423
142	IHT000015	0.0002	4.7619
143	IHT000016	0.0018	4.3269
144	IHT000017	0.0255	47.6636
145	IHT000018	0.0017	23.9437
146	IHT000019	0.0158	8.7583
147	IHT000020	0.0027	9.7473
148	IHT000021	0.0062	14.9038
149	IHT000022	0.0097	81.5126
150	IHT000023	0.0281	802.8571
151	IHT000024	0.0081	17.8414
152	IHT000025	0.0045	20.9302
153	IHT000026	0.0078	41.2698
154	IHT000027	0.0071	22.3975
155	IHT000028	0.0271	112.9167

Test: Jul31_09 dif Date: Tue Jul 31 11:22:58 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0284	158.6592
157	IHT000030	0.0119	330.5556
158	IHT000031	0.0570	982.7585
159	IHT000032	0.0209	1161.1112
160	IHT000033	0.0091	53.2164
161	IHT000034	0.0116	362.5000
162	IHT000035	0.0049	23.7864
163	IHT000036	0.0411	130.8917

Velocity 1 = 8.0057 (ft/sec) (+/- 3.0662 %)
 Velocity 2 = 7.9345 (ft/sec) (+/- 1.9189 %)
 Pressure drop = -2.2977 (psi)
 Tsat in = 235.1182 (deg F) Tsat out = 240.0993 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4992.6948 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1135.6604 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1765	1.7825e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9642	1.5617e-01	1.9000e+00
2	TFM000001	86.8428	87.7888	87.2889	2.0210e-01	1.9002e+00
3	TIN000001	86.0513	86.7894	86.3509	1.8602e-01	1.9002e+00
4	TRV000001	86.3185	87.1589	86.7223	1.9922e-01	1.9002e+00
5	TSR000001	86.2158	86.9522	86.5485	1.7677e-01	1.9002e+00
6	TAO020136	79.7356	80.7945	80.3458	2.2997e-01	1.9001e+00
7	TAO050136	86.3918	87.3369	86.8080	1.9096e-01	1.9002e+00
8	TAO070136	86.5081	87.2464	86.8623	1.8786e-01	1.9002e+00
9	TAO080136	86.2931	87.2380	86.6632	1.9571e-01	1.9002e+00
10	TAO090136	86.9677	87.7032	87.3248	1.9101e-01	1.9002e+00
11	TAO100136	86.3201	86.9520	86.6612	1.5850e-01	1.9002e+00
12	TAO105136	87.1396	88.1919	87.6573	2.4691e-01	1.9002e+00
13	TAO110136	86.6990	87.6423	87.0771	1.9735e-01	1.9002e+00
14	TAO115136	86.6456	87.6987	87.2269	2.2823e-01	1.9002e+00
15	TAO120136	86.3695	87.1067	86.6772	1.6999e-01	1.9002e+00
16	TAO125136	87.1142	88.0586	87.4754	1.8287e-01	1.9002e+00
17	TAO130136	86.2391	86.9733	86.6663	1.7032e-01	1.9002e+00
18	TAO120048	73.8143	74.3468	74.0998	1.3837e-01	1.9000e+00
19	TAO130048	86.0977	86.8343	86.5436	1.7202e-01	1.9002e+00
20	TAO120224	86.5199	87.2561	86.8689	1.7329e-01	1.9002e+00
21	TAO130224	86.5865	87.3196	86.8886	1.7036e-01	1.9002e+00
22	TAO120312	86.6051	87.3426	86.9382	1.6665e-01	1.9002e+00
23	TAO130312	86.2705	87.2167	86.7123	1.5328e-01	1.9002e+00
24	TRT020000	86.9833	87.7211	87.3291	1.9967e-01	1.9002e+00
25	TRT070000	86.7574	87.3907	87.1288	1.7218e-01	1.9002e+00
26	TRT100000	86.8226	87.8726	87.3978	2.2161e-01	1.9002e+00
27	TRT120000	86.7315	87.4682	87.0810	1.8208e-01	1.9002e+00
28	TRT125000	86.7214	87.4570	87.0830	1.8374e-01	1.9002e+00
29	TRT130000	86.4300	87.2707	86.9053	1.6497e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.8292e-01	1.9011e+00
31	TAF050136	86.9817	87.6126	87.3388	1.7625e-01	1.9002e+00
32	TAF070136	86.9755	88.1267	87.6032	2.5385e-01	1.9002e+00
33	TAF080136	86.8414	87.5767	87.1946	1.9265e-01	1.9002e+00
34	TAF090136	74.0474	75.2140	74.5863	2.8820e-01	1.9000e+00
35	TAF100136	86.7920	87.3194	87.0874	1.7026e-01	1.9002e+00
36	TAF105136	86.5972	87.5385	86.9980	2.2778e-01	1.9002e+00
37	TAF110136	86.5209	87.1520	86.8698	1.6232e-01	1.9002e+00
38	TAF115136	87.1192	87.8529	87.4380	1.7469e-01	1.9002e+00
39	TAF120136	86.8459	87.5818	87.2829	1.6501e-01	1.9002e+00
40	TAF125136	86.7230	87.8719	87.2830	2.5124e-01	1.9002e+00
41	TAF130136	86.6062	87.5520	87.1358	1.8258e-01	1.9002e+00
42	TAF120048	86.9734	87.9242	87.5145	2.4562e-01	1.9002e+00
43	TAF130048	86.6810	87.6257	87.1094	1.8242e-01	1.9002e+00
44	TAF120224	86.6713	87.7214	87.1675	2.1851e-01	1.9002e+00
45	TAF130224	86.1923	87.1417	86.6231	2.2124e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1721	1.8322e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2383	1.1364e-01	1.9010e+00
48	TAI130048	86.8827	87.9344	87.4255	3.2005e-01	1.9002e+00
49	TAI130136	86.1854	87.1293	86.6470	1.8492e-01	1.9002e+00
50	TAI130224	86.9145	88.3882	87.7865	3.2468e-01	1.9002e+00
51	TAI130312	86.5976	87.3349	87.0063	1.8374e-01	1.9002e+00
52	TRR130000	85.4569	86.5073	85.8737	2.3134e-01	1.9002e+00
53	TSI000001	80.1822	81.1330	80.6598	1.9359e-01	1.9001e+00
54	TSI000002	75.3683	76.6386	76.1351	2.8082e-01	1.9000e+00
55	TSO000001	75.1872	75.9327	75.5324	1.8810e-01	1.9000e+00
56	TSO000002	75.7332	76.5823	76.0897	1.9856e-01	1.9000e+00
57	TAF020136	86.1567	87.0019	86.5071	1.8282e-01	1.9002e+00
58	TAF120312	86.2249	87.1708	86.7588	2.5375e-01	1.9002e+00
59	TAF130312	86.0342	86.7712	86.4510	1.9115e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4876	1.7115e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5025	1.3381e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5135	1.8082e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5302	2.4344e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3421	1.1714e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3654	1.8082e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4005	6.9053e-04	0.0000e+00
68	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4345	6.9053e-04	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4494	9.6655e-04	0.0000e+00
71	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
73	EMPTY	0.5029	0.5127	0.5081	1.5314e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5228	1.1714e-03	0.0000e+00
75	EMPTY	0.5371	0.5469	0.5421	1.2041e-03	0.0000e+00
76	EMPTY	0.5518	0.5615	0.5569	1.5314e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5768	1.6028e-03	0.0000e+00
78	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6249	6.9053e-04	0.0000e+00
80	PAN020136	-7.8346	-7.5295	-7.6958	8.6770e-02	8.7021e-01
81	PAN050136	-15.3624	-14.5995	-15.0786	1.4788e-01	1.6804e+00
82	PAN070136	-10.4461	-10.0646	-10.2401	8.6165e-02	8.7038e-01
83	PAN080136	-5.3815	-5.0001	-5.1832	7.7069e-02	8.7010e-01
84	PAN090136	-5.1306	-4.8254	-4.9719	8.2776e-02	8.7009e-01
85	PAN100136	-6.0579	-5.9053	-5.9892	5.6107e-02	8.7013e-01
86	PAN105136	-2.6944	-2.3893	-2.5708	7.0449e-02	8.7002e-01
87	PAN110136	-2.4097	-2.1809	-2.2984	6.0113e-02	8.7002e-01
88	PAN115136	-2.4186	-2.0371	-2.2264	7.5888e-02	8.7002e-01
89	PAN120136	-2.3613	-2.0561	-2.2713	6.6636e-02	8.7002e-01
90	PAN125136	-2.3261	-2.0972	-2.2010	5.9218e-02	8.7002e-01
91	PAN130136	-2.7092	-2.4803	-2.5917	4.6777e-02	8.7002e-01
92	PAN120048	-6.0740	-5.8452	-5.9565	7.5841e-02	8.7013e-01
93	PAN130048	-4.8034	-4.5745	-4.6829	5.9876e-02	8.7008e-01
94	PAN120224	-5.9067	-5.6015	-5.7907	6.3999e-02	8.7012e-01
95	PAN130224	-4.8841	-4.6552	-4.7635	6.5558e-02	8.7008e-01
96	PAN120312	-5.1893	-4.8841	-5.0168	7.1984e-02	8.7009e-01
97	PAN130312	-5.0396	-4.8107	-4.9419	5.9777e-02	8.7009e-01
98	PAB000136	22.8438	22.9811	22.9133	3.8400e-02	5.8282e-01
99	PAB100136	24.6299	24.7673	24.7123	3.6993e-02	5.8328e-01
100	PAB125136	24.9777	25.1150	25.0454	3.7269e-02	5.8337e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	22.7235	22.8456	22.7455	4.7374e-02	7.5215e-01
102	PRV000001	24.4677	24.5897	24.5702	4.5206e-02	7.5251e-01
103	PSR000001	25.1321	25.2542	25.2371	4.2787e-02	7.5265e-01
104	PFM000001	9.4915	9.9493	9.7259	1.0325e-01	5.0059e-01
105	PAN000136	-64.2451	-62.8718	-63.6134	2.7575e-01	4.9226e+00
106	PFM000002	9.4076	9.6929	9.5516	6.5568e-02	2.0142e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-10.0000	-1.5430	-7.3329	2.6755e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0025	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0298	9.8332e-02	8.1000e-01
113	VPW000002	-0.2329	0.3530	0.0484	1.1272e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0230	1.1942e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0174	1.2901e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0171	1.1189e-01	8.1000e-01
117	VPW000006	-0.0413	0.1540	0.0642	9.8332e-02	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.8155	1.2322e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.2056	1.1701e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.1800	1.2613e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1074	2.7971e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0477	3.2655e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.8913e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.2479e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.7568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0149	3.4751e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0021	1.1361e-01	4.1000e+00
129	IHT000002	-0.2066	0.3793	0.0082	8.1347e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	9.6332e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0192	1.1942e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0227	1.2627e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0068	1.0440e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0041	7.8523e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0098	8.8233e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0170	8.6541e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	-0.0083	1.0440e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0210	9.0412e-02	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0299	1.0617e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0003	5.5243e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0299	9.8569e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0300	2.4083e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1726	1.0552e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0394	1.0297e-01	4.1000e+00
148	IHT000021	-0.2591	0.1315	0.0065	1.0259e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0158	9.6655e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0278	9.6655e-02	4.1000e+00
151	IHT000024	0.0376	0.2329	0.0571	5.9189e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0043	7.7324e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0006	1.0320e-01	4.1000e+00

Test: Jul31_10

sum1

Date: Tue Jul 31 11:26:22 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0179	8.4997e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0036	9.2456e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0410	1.0595e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0099	9.4125e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0015	1.0440e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0110	7.8523e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0128	1.0440e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	-0.0002	1.0617e-01	4.1000e+00

Velocity 1 = 7.9894 (ft/sec) (+/- 3.0751 %)
Velocity 2 = 7.9389 (ft/sec) (+/- 1.9184 %)
Pressure drop = -2.2996 (psi)
Tsat in = 235.2075 (deg F) Tsat out = 240.1783 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3610.1907 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 58.9613 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1442	1.9964e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9941	1.4350e-01	1.9000e+00
2	TFM000001	86.8433	87.7888	87.3064	2.1120e-01	1.9002e+00
3	TIN000001	86.0513	86.6840	86.3699	1.7675e-01	1.9002e+00
4	TRV000001	86.3200	87.1589	86.7198	1.8739e-01	1.9002e+00
5	TSR000001	86.3209	86.8471	86.5829	1.7054e-01	1.9002e+00
6	TAO020136	73.8413	80.7950	80.3084	2.2355e-01	1.9001e+00
7	TAO050136	86.3918	87.2319	86.8356	1.8478e-01	1.9002e+00
8	TAO070136	86.5076	87.2464	86.8393	1.9136e-01	1.9002e+00
9	TAO080136	86.3982	87.0291	86.6771	1.7749e-01	1.9002e+00
10	TAO090136	86.9677	87.7032	87.3705	1.8742e-01	1.9002e+00
11	TAO100136	86.3207	86.9520	86.6681	1.5673e-01	1.9002e+00
12	TAO105136	87.2445	88.0869	87.6850	2.1981e-01	1.9002e+00
13	TAO110136	86.6990	87.5373	87.0570	1.9489e-01	1.9002e+00
14	TAO115136	86.7507	87.8037	87.2408	2.5659e-01	1.9002e+00
15	TAO120136	86.3695	87.1067	86.6984	1.7008e-01	1.9002e+00
16	TAO125136	87.1142	87.7450	87.4741	1.5338e-01	1.9002e+00
17	TAO130136	86.3442	87.1803	86.6769	1.6935e-01	1.9002e+00
18	TAO120048	73.7088	74.4529	74.0774	1.5380e-01	1.9000e+00
19	TAO130048	86.2029	86.9381	86.5547	1.6720e-01	1.9002e+00
20	TAO120224	86.5193	87.1512	86.8674	1.8133e-01	1.9002e+00
21	TAO130224	86.5865	87.2166	86.8734	1.8393e-01	1.9002e+00
22	TAO120312	86.5003	87.3426	86.9341	1.9542e-01	1.9002e+00
23	TAO130312	86.4802	87.0072	86.7234	1.4133e-01	1.9002e+00
24	TRT020000	86.7726	87.8267	87.2952	2.2040e-01	1.9002e+00
25	TRT070000	86.7574	87.4957	87.1169	1.7621e-01	1.9002e+00
26	TRT100000	87.0326	87.7676	87.4180	1.9460e-01	1.9002e+00
27	TRT120000	86.7315	87.3632	87.0816	1.7233e-01	1.9002e+00
28	TRT125000	86.6177	87.5607	87.1137	2.2404e-01	1.9002e+00
29	TRT130000	86.5351	87.2707	86.8871	1.5575e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6338	2.0226e-01	1.9011e+00
31	TAF050136	86.9817	87.6126	87.3204	1.5504e-01	1.9002e+00
32	TAF070136	87.2876	88.2317	87.6840	2.3641e-01	1.9002e+00
33	TAF080136	86.8414	87.5767	87.1910	1.7966e-01	1.9002e+00
34	TAF090136	74.0469	75.2140	74.6491	2.8596e-01	1.9000e+00
35	TAF100136	86.7920	87.5294	87.0804	1.7439e-01	1.9002e+00
36	TAF105136	86.4921	87.4335	87.0295	2.2520e-01	1.9002e+00
37	TAF110136	86.5209	87.1520	86.8768	1.6028e-01	1.9002e+00
38	TAF115136	87.0136	87.8541	87.4422	1.9971e-01	1.9002e+00
39	TAF120136	86.8459	87.5818	87.2640	1.7627e-01	1.9002e+00
40	TAF125136	86.8258	88.0801	87.3666	2.9418e-01	1.9002e+00
41	TAF130136	86.8157	87.5520	87.1358	1.8818e-01	1.9002e+00
42	TAF120048	87.0790	88.0292	87.5298	2.4162e-01	1.9002e+00
43	TAF130048	86.7861	87.5217	87.1309	1.9063e-01	1.9002e+00
44	TAF120224	86.5678	87.5124	87.1454	2.2392e-01	1.9002e+00
45	TAF130224	86.2980	87.0364	86.6275	1.6481e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0912	2.1972e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1980	9.6806e-02	1.9010e+00
48	TAI130048	86.9878	88.0394	87.4172	2.7371e-01	1.9002e+00
49	TAI130136	86.1849	87.0257	86.6393	1.8499e-01	1.9002e+00
50	TAI130224	87.1252	88.2832	87.7806	2.5814e-01	1.9002e+00
51	TAI130312	86.5976	87.4396	86.9910	1.9195e-01	1.9002e+00
52	TRR130000	85.3530	86.2983	85.8500	2.1418e-01	1.9002e+00
53	TSI000001	80.2878	81.0268	80.6630	1.8304e-01	1.9001e+00
54	TSI000002	75.4749	76.7451	76.2002	3.0003e-01	1.9000e+00
55	TSO000001	74.9745	76.0392	75.5241	2.1326e-01	1.9000e+00
56	TSO000002	75.7327	76.6877	76.1142	2.2817e-01	1.9000e+00
57	TAF020136	86.1567	87.0013	86.5207	1.9292e-01	1.9002e+00
58	TAF120312	86.2243	87.4862	86.7610	2.8880e-01	1.9002e+00
59	TAF130312	86.0342	86.8753	86.4487	1.9839e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4877	1.6172e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5028	6.9754e-04	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5140	2.1781e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5298	2.4662e-03	0.0000e+00
64	EMPTY	0.3369	0.3467	0.3418	9.9670e-04	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3654	1.8234e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
68	EMPTY	0.4102	0.4199	0.4150	9.9670e-04	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4344	9.7615e-04	0.0000e+00
70	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
71	EMPTY	0.4688	0.4785	0.4736	9.9670e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4879	1.3508e-03	0.0000e+00
73	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5227	9.7615e-04	0.0000e+00
75	EMPTY	0.5371	0.5469	0.5420	9.9670e-04	0.0000e+00
76	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5766	1.3508e-03	0.0000e+00
78	EMPTY	0.5957	0.6006	0.6004	9.7615e-04	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6246	1.3508e-03	0.0000e+00
80	PAN020136	-7.8346	-7.5295	-7.6945	7.8406e-02	8.7021e-01
81	PAN050136	-15.3624	-14.7521	-15.0822	1.5050e-01	1.6804e+00
82	PAN070136	-10.4461	-10.0646	-10.2499	7.6294e-02	8.7038e-01
83	PAN080136	-5.3052	-5.0764	-5.1729	7.5936e-02	8.7010e-01
84	PAN090136	-5.2069	-4.8254	-4.9936	7.3012e-02	8.7009e-01
85	PAN100136	-6.0579	-5.8290	-5.9785	5.8185e-02	8.7013e-01
86	PAN105136	-2.6181	-2.3893	-2.5652	5.6590e-02	8.7002e-01
87	PAN110136	-2.4097	-2.1809	-2.2976	6.6260e-02	8.7002e-01
88	PAN115136	-2.4186	-2.0371	-2.2255	7.3215e-02	8.7002e-01
89	PAN120136	-2.3613	-2.1324	-2.2632	6.4211e-02	8.7002e-01
90	PAN125136	-2.4024	-2.0972	-2.2140	6.8065e-02	8.7002e-01
91	PAN130136	-2.7092	-2.5566	-2.5970	4.1503e-02	8.7002e-01
92	PAN120048	-6.1503	-5.8452	-5.9697	7.8940e-02	8.7013e-01
93	PAN130048	-4.8797	-4.5745	-4.6913	6.0520e-02	8.7008e-01
94	PAN120224	-5.9067	-5.6778	-5.7962	6.2413e-02	8.7012e-01
95	PAN130224	-4.9604	-4.6552	-4.7969	7.4688e-02	8.7008e-01
96	PAN120312	-5.1130	-4.8841	-5.0195	7.3485e-02	8.7009e-01
97	PAN130312	-5.1159	-4.8107	-4.9368	6.8860e-02	8.7009e-01
98	PAB000136	22.8895	23.0269	22.9503	4.2191e-02	5.8283e-01
99	PAB100136	24.6757	24.8130	24.7374	4.1316e-02	5.8329e-01
100	PAB125136	25.0234	25.1608	25.0804	3.4371e-02	5.8338e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	22.7235	22.9676	22.8456	2.4917e-02	7.5217e-01
102	PRV000001	24.4677	24.5897	24.5399	6.0619e-02	7.5251e-01
103	PSR000001	25.2542	25.3763	25.2567	1.7439e-02	7.5265e-01
104	PFM000001	9.4000	9.8578	9.6859	1.0511e-01	5.0059e-01
105	PAN000136	-64.2451	-62.8718	-63.6659	3.0673e-01	4.9226e+00
106	PFM000002	9.4412	9.7097	9.5624	6.6704e-02	2.0142e-01
107	EMPTY	-0.0049	0.0049	0.0045	1.6787e-03	0.0000e+00
108	EMPTY	-10.0000	1.2549	-6.3484	3.2861e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0021	2.9901e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0276	9.8153e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0541	9.8483e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0292	1.1219e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0087	1.0746e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0182	1.0548e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0862	1.0955e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.7502	1.0832e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.1156	1.4473e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3750	1.2587e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1545	2.3740e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0680	3.4288e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0539	3.2344e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0188	3.9868e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.8191e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	2.8548e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0150	3.4291e-03	0.0000e+00
128	IHT000001	-0.1503	0.4357	0.0092	1.1741e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0047	9.6318e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0162	8.2141e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	-0.0104	1.1219e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0088	1.1319e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0036	1.0955e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0089	7.5986e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0225	9.2540e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0122	6.7148e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0269	1.0409e-01	4.1000e+00
138	IHT000011	-0.0338	0.3568	0.0300	1.0076e-01	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0372	1.0315e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	0.0057	7.2937e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0438	1.1319e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	3.9868e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0238	9.8153e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0041	3.1060e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0248	9.8483e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1686	1.2582e-01	4.1000e+00
147	IHT000020	-0.1052	0.4808	0.0104	1.1906e-01	4.1000e+00
148	IHT000021	-0.2591	0.1315	0.0239	1.0594e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0221	1.1059e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0206	8.3122e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0774	8.8965e-02	4.1000e+00
152	IHT000025	-0.0488	0.3418	-0.0090	8.8965e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0230	7.9328e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0246	7.6412e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0049	1.1448e-01	4.1000e+00

Test: Jul31_10

sum2

Date: Tue Jul 31 11:26:22 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0094	8.3122e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0235	8.7680e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0349	1.0548e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0147	9.0949e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0063	8.2338e-02	4.1000e+00
161	IHT000034	-0.3718	0.2141	0.0028	9.6318e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0295	8.9148e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0057	1.0640e-01	4.1000e+00

Test: Jul31_10 dif Date: Tue Jul 31 11:26:22 1990 Page: 1

Velocity 1 = 0.016300 (ft/sec)

Velocity 2 = 0.004400 (ft/sec)

Pressure Drop = 0.001900 (psi)

Tsat in = 0.089310 (deg F) Tsat out = 0.078995 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0323	0.0435
1	TRF000002	0.0299	0.0404
2	TFM000001	0.0175	0.0200
3	TIN000001	0.0190	0.0220
4	TRV000001	0.0025	0.0029
5	TSR000001	0.0344	0.0397
6	TAO020136	0.0374	0.0465
7	TAO050136	0.0276	0.0318
8	TAO070136	0.0230	0.0265
9	TAO080136	0.0139	0.0160
10	TAO090136	0.0457	0.0523
11	TAO100136	0.0069	0.0080
12	TAO105136	0.0277	0.0316
13	TAO110136	0.0201	0.0231
14	TAO115136	0.0139	0.0159
15	TAO120136	0.0212	0.0245
16	TAO125136	0.0013	0.0015
17	TAO130136	0.0106	0.0122
18	TAO120048	0.0224	0.0302
19	TAO130048	0.0111	0.0128
20	TAO120224	0.0015	0.0017
21	TAO130224	0.0152	0.0175
22	TAO120312	0.0041	0.0047
23	TAO130312	0.0111	0.0128
24	TRT020000	0.0339	0.0388
25	TRT070000	0.0119	0.0137
26	TRT100000	0.0202	0.0231
27	TRT120000	0.0006	0.0007
28	TRT125000	0.0307	0.0353
29	TRT130000	0.0182	0.0209
30	EMPTY	0.0269	0.0678
31	TAF050136	0.0184	0.0211
32	TAF070136	0.0808	0.0922
33	TAF080136	0.0036	0.0041
34	TAF090136	0.0628	0.0842
35	TAF100136	0.0070	0.0080
36	TAF105136	0.0315	0.0362
37	TAF110136	0.0070	0.0081
38	TAF115136	0.0042	0.0048
39	TAF120136	0.0189	0.0217
40	TAF125136	0.0836	0.0958
41	TAF130136	0.0000	0.0000
42	TAF120048	0.0153	0.0175
43	TAF130048	0.0215	0.0247
44	TAF120224	0.0221	0.0254
45	TAF130224	0.0044	0.0051

#	Name	Abs Diff	%Diff
46	EMPTY	0.0809	0.2119
47	EMPTY	0.0403	0.1027
48	TAI130048	0.0083	0.0095
49	TAI130136	0.0077	0.0089
50	TAI130224	0.0059	0.0067
51	TAI130312	0.0153	0.0176
52	TRR130000	0.0237	0.0276
53	TSI000001	0.0032	0.0040
54	TSI000002	0.0651	0.0855
55	TSO000001	0.0083	0.0110
56	TSO000002	0.0245	0.0322
57	TAF020136	0.0136	0.0157
58	TAF120312	0.0022	0.0025
59	TAF130312	0.0023	0.0027
60	EMPTY	0.0001	0.0205
61	EMPTY	0.0003	0.0597
62	EMPTY	0.0005	0.0974
63	EMPTY	0.0004	0.0754
64	EMPTY	0.0003	0.0877
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0250
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0001	0.0230
70	EMPTY	0.0002	0.0445
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0003	0.0615
73	EMPTY	0.0003	0.0590
74	EMPTY	0.0001	0.0191
75	EMPTY	0.0001	0.0184
76	EMPTY	0.0003	0.0539
77	EMPTY	0.0002	0.0347
78	EMPTY	0.0002	0.0333
79	EMPTY	0.0003	0.0480
80	PAN020136	0.0013	0.0169
81	PAN050136	0.0036	0.0239
82	PAN070136	0.0098	0.0957
83	PAN080136	0.0103	0.1987
84	PAN090136	0.0217	0.4365
85	PAN100136	0.0107	0.1787
86	PAN105136	0.0056	0.2178
87	PAN110136	0.0008	0.0348
88	PAN115136	0.0009	0.0404
89	PAN120136	0.0081	0.3566
90	PAN125136	0.0130	0.5906
91	PAN130136	0.0053	0.2045
92	PAN120048	0.0132	0.2216
93	PAN130048	0.0084	0.1794
94	PAN120224	0.0055	0.0950
95	PAN130224	0.0334	0.7012
96	PAN120312	0.0027	0.0538
97	PAN130312	0.0051	0.1032
98	PAB000136	0.0370	0.1615
99	PAB100136	0.0251	0.1016
100	PAB125136	0.0350	0.1397

Test: Jul31_10

dif

Date: Tue Jul 31 11:26:22 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1001	0.4401
102	PRV000001	0.0303	0.1233
103	PSR000001	0.0196	0.0777
104	PFM000001	0.0400	0.4113
105	PAN000136	0.0525	0.0825
106	PFM000002	0.0108	0.1131
107	EMPTY	0.0001	2.2727
108	EMPTY	0.9845	13.4258
109	EMPTY	0.0004	16.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0022	7.3826
113	VPW000002	0.0057	11.7769
114	VPW000003	0.0062	26.9565
115	VPW000004	0.0087	50.0000
116	VPW000005	0.0011	6.4327
117	VPW000006	0.0220	34.2679
118	IPW000001	0.0653	8.0074
119	IPW000002	0.0900	43.7743
120	IPW000003	0.1950	108.3333
121	IPW000004	0.0471	43.8547
122	IPW000005	0.0203	42.5577
123	IPW000006	0.0024	4.6602
124	EMPTY	0.0003	1.5707
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0002	1.2579
127	EMPTY	0.0001	0.6711
128	IHT000001	0.0071	338.0952
129	IHT000002	0.0035	42.6829
130	IHT000003	0.0121	295.1219
131	IHT000004	0.0296	154.1667
132	IHT000005	0.0139	61.2335
133	IHT000006	0.0104	152.9412
134	IHT000007	0.0122	369.6970
135	IHT000008	0.0052	30.0578
136	IHT000009	0.0081	197.5610
137	IHT000010	0.0367	374.4898
138	IHT000011	0.0130	76.4706
139	IHT000012	0.0455	548.1928
140	IHT000013	0.0267	127.1429
141	IHT000014	0.0139	46.4883
142	IHT000015	0.0078	2599.9998
143	IHT000016	0.0061	20.4013
144	IHT000017	0.0259	86.3333
145	IHT000018	0.0021	9.2511
146	IHT000019	0.0040	2.3175
147	IHT000020	0.0290	73.6041
148	IHT000021	0.0174	267.6923
149	IHT000022	0.0063	39.8734
150	IHT000023	0.0072	25.8993
151	IHT000024	0.0203	35.5517
152	IHT000025	0.0047	34.3066
153	IHT000026	0.0041	21.6931
154	IHT000027	0.0203	472.0930
155	IHT000028	0.0043	716.6666

Test: Jul31_10 dif Date: Tue Jul 31 11:26:22 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0085	47.4860
157	IHT000030	0.0199	552.7778
158	IHT000031	0.0061	14.8781
159	IHT000032	0.0246	248.4848
160	IHT000033	0.0048	320.0000
161	IHT000034	0.0082	74.5455
162	IHT000035	0.0167	130.4688
163	IHT000036	0.0059	2950.0002

Velocity 1 = 6.0024 (ft/sec) (+/- 4.9023 %)
Velocity 2 = 5.9727 (ft/sec) (+/- 2.3671 %)
Pressure drop = -3.5385 (psi)
Tsat in = 231.7654 (deg F) Tsat out = 239.7992 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5102.8906 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 9773.9463 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	73.8393	74.4796	74.1253	1.8094e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	74.0067	1.4390e-01	1.9000e+00
2	TFM0000001	87.1577	87.7888	87.4693	1.8506e-01	1.9002e+00
3	TIN0000001	86.2619	86.8945	86.5403	1.7521e-01	1.9002e+00
4	TRV0000001	86.5278	87.1584	86.8268	1.7374e-01	1.9002e+00
5	TSR0000001	86.4251	86.9522	86.6948	1.4880e-01	1.9002e+00
6	TAO020136	79.9469	81.1122	80.3583	2.4643e-01	1.9001e+00
7	TAO050136	86.7060	87.3369	87.0337	1.5689e-01	1.9002e+00
8	TAO070136	86.5081	87.5624	87.0437	2.2432e-01	1.9002e+00
9	TAO080136	86.5020	87.2380	86.8971	1.8431e-01	1.9002e+00
10	TAO090136	87.0718	88.0177	87.5133	2.2645e-01	1.9002e+00
11	TAO100136	86.4249	87.3716	86.8290	2.0418e-01	1.9002e+00
12	TAO105136	87.5600	88.1918	87.8886	1.8851e-01	1.9002e+00
13	TAO110136	86.8046	87.6423	87.2518	1.7705e-01	1.9002e+00
14	TAO115136	86.9617	88.0140	87.4456	2.4523e-01	1.9002e+00
15	TAO120136	86.5797	87.3167	86.9082	1.8244e-01	1.9002e+00
16	TAO125136	87.3233	87.9546	87.6514	1.5989e-01	1.9002e+00
17	TAO130136	86.5519	87.1803	86.8484	1.6151e-01	1.9002e+00
18	TAO120048	73.6020	74.3468	73.9468	1.7529e-01	1.9000e+00
19	TAO130048	86.3072	87.0437	86.7026	1.6929e-01	1.9002e+00
20	TAO120224	86.7294	87.3612	87.0494	1.5765e-01	1.9002e+00
21	TAO130224	86.6896	87.4246	87.0882	1.6396e-01	1.9002e+00
22	TAO120312	86.8157	87.4474	87.1275	1.6744e-01	1.9002e+00
23	TAO130312	86.5853	87.2167	86.9134	1.5987e-01	1.9002e+00
24	TRT020000	86.9834	88.1423	87.5144	2.1071e-01	1.9002e+00
25	TRT070000	86.9689	87.7071	87.3021	1.5862e-01	1.9002e+00
26	TRT100000	87.0326	88.0801	87.5443	1.8555e-01	1.9002e+00
27	TRT120000	86.8371	87.6779	87.2446	1.5846e-01	1.9002e+00
28	TRT125000	86.8270	87.6657	87.2457	2.0308e-01	1.9002e+00
29	TRT130000	86.7448	87.3763	87.0436	1.7821e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6515	2.1752e-01	1.9011e+00
31	TAF050136	87.1909	88.0308	87.5269	1.7491e-01	1.9002e+00
32	TAF070136	87.3926	88.2299	87.8159	2.1763e-01	1.9002e+00
33	TAF080136	87.0521	87.6794	87.3736	1.3711e-01	1.9002e+00
34	TAF090136	74.0469	75.1088	74.6159	2.6400e-01	1.9000e+00
35	TAF100136	86.8976	87.7399	87.2810	1.8026e-01	1.9002e+00
36	TAF105136	86.7005	87.6412	87.1979	2.3091e-01	1.9002e+00
37	TAF110136	86.7301	87.5702	87.0286	1.9244e-01	1.9002e+00
38	TAF115136	87.1180	88.0635	87.6179	2.5310e-01	1.9002e+00
39	TAF120136	87.0550	87.7908	87.4375	1.6670e-01	1.9002e+00
40	TAF125136	86.8258	87.9774	87.5161	3.2677e-01	1.9002e+00
41	TAF130136	86.8157	87.6564	87.2906	1.8047e-01	1.9002e+00
42	TAF120048	87.1848	88.1350	87.7130	2.6377e-01	1.9002e+00
43	TAF130048	86.7851	87.7313	87.2728	1.9076e-01	1.9002e+00
44	TAF120224	86.8810	87.6174	87.3015	1.9101e-01	1.9002e+00
45	TAF130224	86.4034	87.1417	86.7960	1.7828e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.2181	1.7965e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2062	1.0175e-01	1.9010e+00
48	TAI130048	86.9878	88.2486	87.6437	3.2368e-01	1.9002e+00
49	TAI130136	86.4986	87.4442	86.8646	1.8513e-01	1.9002e+00
50	TAI130224	87.1252	88.4937	87.8411	3.4092e-01	1.9002e+00
51	TAI130312	86.5976	87.8603	87.1408	2.6326e-01	1.9002e+00
52	TRR130000	85.5621	86.6130	86.0161	2.2978e-01	1.9002e+00
53	TSI000001	80.1822	80.9225	80.5670	1.7829e-01	1.9001e+00
54	TSI000002	75.4749	76.7451	76.1096	2.8996e-01	1.9000e+00
55	TSO000001	75.1875	76.0387	75.5535	1.7882e-01	1.9000e+00
56	TSO000002	75.6266	76.5823	76.1320	1.9478e-01	1.9000e+00
57	TAF020136	86.2618	87.1069	86.7144	1.7599e-01	1.9002e+00
58	TAF120312	86.4350	87.3807	86.9603	2.3540e-01	1.9002e+00
59	TAF130312	86.2440	86.9809	86.6229	1.5474e-01	1.9002e+00
60	EMPTY	0.4883	0.4932	0.4929	1.1714e-03	0.0000e+00
61	EMPTY	0.5029	0.5078	0.5074	1.3381e-03	0.0000e+00
62	EMPTY	0.5176	0.5225	0.5189	2.2146e-03	0.0000e+00
63	EMPTY	0.5322	0.5371	0.5360	2.0432e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3458	1.8950e-03	0.0000e+00
65	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3844	2.2146e-03	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4019	2.2603e-03	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4158	1.8082e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4514	2.4484e-03	0.0000e+00
71	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4888	1.4797e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5096	2.3675e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5269	1.4797e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5447	2.4484e-03	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5612	1.1714e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5808	1.1714e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6009	1.1714e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6257	1.7115e-03	0.0000e+00
80	PAN020136	-12.1834	-11.9545	-12.0537	5.6107e-02	8.7052e-01
81	PAN050136	-23.6022	-22.9918	-23.2909	1.4446e-01	1.6810e+00
82	PAN070136	-15.7867	-15.5578	-15.6738	7.2690e-02	8.7088e-01
83	PAN080136	-7.9755	-7.7466	-7.8886	6.3571e-02	8.7022e-01
84	PAN090136	-7.8772	-7.7246	-7.7871	3.9868e-02	8.7022e-01
85	PAN100136	-8.4230	-8.1941	-8.3360	6.5413e-02	8.7025e-01
86	PAN105136	-3.9914	-3.7625	-3.9182	6.1578e-02	8.7006e-01
87	PAN110136	-3.8593	-3.6304	-3.7174	7.3938e-02	8.7005e-01
88	PAN115136	-3.7919	-3.5630	-3.7080	7.5904e-02	8.7005e-01
89	PAN120136	-3.8109	-3.6583	-3.7300	4.9732e-02	8.7005e-01
90	PAN125136	-3.9283	-3.6994	-3.7619	6.6636e-02	8.7005e-01
91	PAN130136	-4.0061	-3.7010	-3.8764	6.4018e-02	8.7005e-01
92	PAN120048	-8.7443	-8.4391	-8.5643	6.4957e-02	8.7026e-01
93	PAN130048	-7.5500	-7.3211	-7.4676	6.3253e-02	8.7020e-01
94	PAN120224	-8.2718	-7.9666	-8.0994	7.9810e-02	8.7024e-01
95	PAN130224	-7.7070	-7.4781	-7.6047	6.6494e-02	8.7021e-01
96	PAN120312	-7.7832	-7.5544	-7.6886	6.0801e-02	8.7021e-01
97	PAN130312	-7.7862	-7.5573	-7.6900	6.5049e-02	8.7021e-01
98	PAB000136	21.5162	21.6536	21.5584	4.2219e-02	5.8250e-01
99	PAB100136	24.2637	24.4468	24.3058	3.4405e-02	5.8317e-01
100	PAB125136	24.8403	24.9777	24.9127	3.5926e-02	5.8333e-01

Test: Jul31_11

sum1

Date: Tue Jul 31 11:29:01 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.2586	21.5028	21.4076	5.6722e-02	7.5191e-01
102	PRV000001	24.4677	24.5897	24.5751	4.0071e-02	7.5251e-01
103	PSR000001	25.2542	25.2542	25.2542	0.0000e+00	7.5265e-01
104	PFM000001	5.2801	5.5548	5.4248	9.0783e-02	5.0018e-01
105	PAN000136	-98.1196	-97.2040	-97.9640	2.3777e-01	4.9261e+00
106	PFM000002	5.2966	5.4644	5.3704	3.9824e-02	2.0045e-01
107	EMPTY	-0.0049	0.0049	0.0027	3.4400e-03	0.0000e+00
108	EMPTY	-10.0000	-3.1592	-7.8344	2.2307e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0013	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0376	1.0625e-01	8.1000e-01
113	VPW000002	-0.0376	0.3530	0.0679	1.0595e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0230	1.0559e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0024	1.0206e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1149	1.2478e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.6984	1.1329e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.3617	1.2271e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.1792e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1855	2.5420e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.0574	3.0258e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0319	3.9459e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0199	3.3944e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3778e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0162	2.6908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.8913e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0057	1.1027e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0004	8.2864e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0002	6.2265e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	-0.0042	1.0559e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0305	1.1272e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0206	1.1712e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0240	8.8233e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0212	1.0014e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	IHT000010	-0.2442	0.3418	0.0019	1.0297e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0326	9.3461e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0152	1.1327e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0024	8.5454e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0416	1.2608e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0042	7.2866e-02	4.1000e+00
143	IHT000016	-0.2592	0.3268	0.0338	1.2001e-01	4.1000e+00
144	IHT000017	-0.4582	0.7136	0.0144	3.0074e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0110	1.0595e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1648	1.1443e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0355	1.0470e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0455	1.0559e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0041	1.1306e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0122	8.4997e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0532	1.0320e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0072	7.8523e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0239	8.5454e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0228	1.1811e-01	4.1000e+00

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0056	9.3043e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0231	9.5357e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0371	1.1272e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0174	1.0014e-01	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0015	9.6655e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	9.6655e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0323	1.1334e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0115	9.8332e-02	4.1000e+00

Test: Jul31_11

sum2

Date: Tue Jul 31 11:29:01 1990

Page: 1

Velocity 1 = 6.0172 (ft/sec) (+/- 4.8807 %)
Velocity 2 = 5.9922 (ft/sec) (+/- 2.3592 %)
Pressure drop = -3.5353 (psi)
Tsats in = 231.7084 (deg F) Tsats out = 239.7009 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3780.8945 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3251.7673 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1311	1.6700e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9638	1.5776e-01	1.9000e+00
2	TFM000001	87.0533	87.8931	87.4692	1.8687e-01	1.9002e+00
3	TIN000001	86.2624	86.7894	86.6019	1.4143e-01	1.9002e+00
4	TRV000001	86.6329	87.3675	86.8989	1.7268e-01	1.9002e+00
5	TSR000001	86.4271	87.0558	86.6938	1.3400e-01	1.9002e+00
6	TAO020136	79.8418	80.7945	80.3387	2.3099e-01	1.9001e+00
7	TAO050136	86.3934	87.4404	87.0189	1.8230e-01	1.9002e+00
8	TAO070136	86.5081	87.4569	86.9944	2.0735e-01	1.9002e+00
9	TAO080136	86.3987	87.2362	86.8006	1.5036e-01	1.9002e+00
10	TAO090136	87.1768	88.1217	87.5757	2.3180e-01	1.9002e+00
11	TAO100136	86.5301	87.0568	86.8436	1.4956e-01	1.9002e+00
12	TAO105136	87.3501	88.2967	87.8696	2.1308e-01	1.9002e+00
13	TAO110136	87.0124	87.7454	87.2692	1.7769e-01	1.9002e+00
14	TAO115136	86.9612	87.9085	87.4341	2.3542e-01	1.9002e+00
15	TAO120136	86.6848	87.2117	86.8742	1.5033e-01	1.9002e+00
16	TAO125136	87.3233	87.8496	87.6366	1.2604e-01	1.9002e+00
17	TAO130136	86.5513	87.0753	86.8330	1.6270e-01	1.9002e+00
18	TAO120048	73.7082	74.2407	73.9647	1.6795e-01	1.9000e+00
19	TAO130048	86.4123	86.9386	86.6871	1.5882e-01	1.9002e+00
20	TAO120224	86.7294	87.4655	87.0387	1.5840e-01	1.9002e+00
21	TAO130224	86.7947	87.5270	87.0515	1.8007e-01	1.9002e+00
22	TAO120312	86.7108	87.4479	87.1017	1.7189e-01	1.9002e+00
23	TAO130312	86.5853	87.2156	86.9072	1.3646e-01	1.9002e+00
24	TRT020000	87.0890	87.8263	87.4845	1.7545e-01	1.9002e+00
25	TRT070000	87.0740	87.6021	87.3112	1.5010e-01	1.9002e+00
26	TRT100000	87.2415	87.9764	87.5247	1.8694e-01	1.9002e+00
27	TRT120000	87.0464	87.5729	87.2186	1.5875e-01	1.9002e+00
28	TRT125000	86.9327	87.5601	87.2711	1.4282e-01	1.9002e+00
29	TRT130000	86.7453	87.2712	87.0710	1.3612e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5916	2.4531e-01	1.9011e+00
31	TAF050136	87.1914	87.9258	87.5209	1.8413e-01	1.9002e+00
32	TAF070136	87.3926	88.2280	87.8330	2.0808e-01	1.9002e+00
33	TAF080136	87.1549	87.6800	87.3651	1.7364e-01	1.9002e+00
34	TAF090136	73.9416	75.0021	74.5323	2.3323e-01	1.9000e+00
35	TAF100136	87.0026	87.7404	87.2652	1.9239e-01	1.9002e+00
36	TAF105136	86.5972	87.6418	87.1823	2.7493e-01	1.9002e+00
37	TAF110136	86.7301	87.4646	87.0772	1.4258e-01	1.9002e+00
38	TAF115136	87.2230	88.0617	87.5575	1.9584e-01	1.9002e+00
39	TAF120136	87.1601	87.6858	87.4558	1.4801e-01	1.9002e+00
40	TAF125136	86.9309	88.0806	87.5279	2.8115e-01	1.9002e+00
41	TAF130136	87.1303	87.6564	87.3280	1.5707e-01	1.9002e+00
42	TAF120048	87.1854	88.1355	87.7067	2.1589e-01	1.9002e+00
43	TAF130048	86.8902	87.6263	87.3063	2.0110e-01	1.9002e+00
44	TAF120224	87.0917	87.7214	87.3721	1.5946e-01	1.9002e+00
45	TAF130224	86.4039	87.1420	86.8041	1.7074e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1241	2.3021e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2589	1.1598e-01	1.9010e+00
48	TAI130048	86.9878	88.3535	87.5757	3.1346e-01	1.9002e+00
49	TAI130136	86.3949	87.3391	86.8655	2.2672e-01	1.9002e+00
50	TAI130224	87.3358	88.4936	87.8836	2.9843e-01	1.9002e+00
51	TAI130312	86.7033	87.6499	87.1197	2.2728e-01	1.9002e+00
52	TRR130000	85.4587	86.5073	85.9910	2.4589e-01	1.9002e+00
53	TSI000001	80.2878	80.9213	80.5512	1.7790e-01	1.9001e+00
54	TSI000002	75.4744	76.7439	76.1009	2.8629e-01	1.9000e+00
55	TSO000001	75.2936	75.8263	75.5459	1.7196e-01	1.9000e+00
56	TSO000002	75.7327	76.5818	76.1705	2.0730e-01	1.9000e+00
57	TAF020136	86.4734	87.1078	86.7453	1.6419e-01	1.9002e+00
58	TAF120312	86.4350	87.4850	86.9324	2.8666e-01	1.9002e+00
59	TAF130312	86.3492	86.9799	86.6413	1.5662e-01	1.9002e+00
60	EMPTY	0.4883	0.4980	0.4927	1.7954e-03	0.0000e+00
61	EMPTY	0.5029	0.5078	0.5074	1.3508e-03	0.0000e+00
62	EMPTY	0.5127	0.5225	0.5189	2.3953e-03	0.0000e+00
63	EMPTY	0.5322	0.5371	0.5356	2.2737e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3452	2.2737e-03	0.0000e+00
65	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3831	2.4538e-03	0.0000e+00
67	EMPTY	0.4004	0.4102	0.4018	2.4414e-03	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4156	1.6172e-03	0.0000e+00
69	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4508	2.3135e-03	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4739	1.1827e-03	0.0000e+00
72	EMPTY	0.4883	0.5078	0.4891	3.0472e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5088	1.9883e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5266	1.7263e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5435	2.2737e-03	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5592	2.4621e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5800	2.0584e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6010	1.3508e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6251	6.9754e-04	0.0000e+00
80	PAN020136	-12.1834	-11.8782	-12.0402	6.7224e-02	8.7052e-01
81	PAN050136	-23.4496	-22.9918	-23.2783	1.1500e-01	1.6810e+00
82	PAN070136	-15.7867	-15.5578	-15.6886	6.9647e-02	8.7088e-01
83	PAN080136	-8.0518	-7.7466	-7.8696	7.6001e-02	8.7022e-01
84	PAN090136	-7.8772	-7.6483	-7.7728	5.3255e-02	8.7022e-01
85	PAN100136	-8.4230	-8.1941	-8.3296	7.1816e-02	8.7025e-01
86	PAN105136	-3.9914	-3.7625	-3.9105	5.7025e-02	8.7005e-01
87	PAN110136	-3.8593	-3.6304	-3.7410	7.3147e-02	8.7005e-01
88	PAN115136	-3.8682	-3.4867	-3.7094	7.7612e-02	8.7005e-01
89	PAN120136	-3.8109	-3.5820	-3.7346	6.2294e-02	8.7005e-01
90	PAN125136	-3.8520	-3.6994	-3.7632	4.2212e-02	8.7005e-01
91	PAN130136	-4.0061	-3.7010	-3.8691	7.6261e-02	8.7005e-01
92	PAN120048	-8.6680	-8.4391	-8.5279	5.8988e-02	8.7026e-01
93	PAN130048	-7.5500	-7.3211	-7.4737	6.4211e-02	8.7020e-01
94	PAN120224	-8.2718	-7.9666	-8.0819	7.4886e-02	8.7023e-01
95	PAN130224	-7.7070	-7.4781	-7.5902	7.4853e-02	8.7021e-01
96	PAN120312	-7.7832	-7.5544	-7.6820	6.4939e-02	8.7021e-01
97	PAN130312	-7.7862	-7.5573	-7.6787	5.1459e-02	8.7021e-01
98	PAB000136	21.4705	21.6078	21.5359	3.2369e-02	5.8249e-01
99	PAB100136	24.2179	24.3553	24.2684	3.8803e-02	5.8316e-01
100	PAB125136	24.7946	24.9319	24.8693	3.8178e-02	5.8332e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.2586	21.3807	21.3732	2.9569e-02	7.5190e-01
102	PRV000001	24.4677	24.7118	24.5872	3.0414e-02	7.5251e-01
103	PSR000001	25.1321	25.3763	25.2268	5.7176e-02	7.5265e-01
104	PFM000001	5.2801	5.6463	5.4520	8.8906e-02	5.0019e-01
105	PAN000136	-98.1196	-97.6618	-97.8767	2.3082e-01	4.9261e+00
106	PFM000002	5.3469	5.4980	5.4062	3.3925e-02	2.0046e-01
107	EMPTY	-0.0049	0.0049	0.0033	2.8866e-03	0.0000e+00
108	EMPTY	-10.0000	-0.4932	-7.9956	2.3513e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0012	2.1215e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0396	1.1362e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0541	9.8483e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0372	1.1755e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0087	9.9792e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0382	1.1146e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0783	1.0409e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.8697	1.2486e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.0437	1.1826e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.1362	1.1695e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.0747	2.5511e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1178	2.7607e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1037	4.0549e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0186	3.5482e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0137	2.8155e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	2.6022e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.1032e-03	0.0000e+00
128	IHT000001	-0.1503	0.0451	0.0132	7.2937e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0033	7.9328e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0122	6.7148e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0024	9.8153e-02	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0367	9.6990e-02	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0116	9.0949e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0129	8.9148e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0424	9.7656e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0042	9.7323e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0249	7.5986e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0140	8.4860e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0067	9.6990e-02	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0143	8.7123e-02	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0358	1.0640e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0005	6.8582e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0597	1.0315e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0400	3.0639e-01	4.1000e+00
145	IHT000018	-0.3117	0.0789	-0.0168	1.2041e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1965	1.0731e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0184	1.1059e-01	4.1000e+00
148	IHT000021	-0.4545	0.3268	0.0199	1.3811e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0142	1.0486e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0166	8.9148e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0336	1.0156e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0249	7.5986e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0031	7.3601e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0166	7.9736e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0031	1.1560e-01	4.1000e+00

Test: Jul31_11

sum2

Date: Tue Jul 31 11:29:01 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0185	9.9303e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0115	8.4477e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0468	1.1362e-01	4.1000e+00
159	IHT000032	-0.2404	0.3455	0.0187	1.0836e-01	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0143	8.7123e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0148	7.4477e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0255	1.1810e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0296	9.5132e-02	4.1000e+00

Velocity 1 = 0.014800 (ft/sec)
 Velocity 2 = 0.019500 (ft/sec)
 Pressure Drop = 0.003200 (psi)
 Tsat in = 0.056992 (deg F) Tsat out = 0.098297 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0058	0.0078
1	TRF000002	0.0429	0.0580
2	TFM000001	0.0001	0.0001
3	TIN000001	0.0616	0.0712
4	TRV000001	0.0721	0.0830
5	TSR000001	0.0010	0.0012
6	TAO020136	0.0196	0.0244
7	TAO050136	0.0148	0.0170
8	TAO070136	0.0493	0.0566
9	TAO080136	0.0965	0.1111
10	TAO090136	0.0624	0.0713
11	TAO100136	0.0146	0.0168
12	TAO105136	0.0190	0.0216
13	TAO110136	0.0174	0.0199
14	TAO115136	0.0115	0.0132
15	TAO120136	0.0340	0.0391
16	TAO125136	0.0148	0.0169
17	TAO130136	0.0154	0.0177
18	TAO120048	0.0179	0.0242
19	TAO130048	0.0155	0.0179
20	TAO120224	0.0107	0.0123
21	TAO130224	0.0367	0.0421
22	TAO120312	0.0258	0.0296
23	TAO130312	0.0062	0.0071
24	TRT020000	0.0299	0.0342
25	TRT070000	0.0091	0.0104
26	TRT100000	0.0196	0.0224
27	TRT120000	0.0260	0.0298
28	TRT125000	0.0254	0.0291
29	TRT130000	0.0274	0.0315
30	EMPTY	0.0599	0.1511
31	TAF050136	0.0060	0.0069
32	TAF070136	0.0171	0.0195
33	TAF080136	0.0085	0.0097
34	TAF090136	0.0836	0.1120
35	TAF100136	0.0158	0.0181
36	TAF105136	0.0156	0.0179
37	TAF110136	0.0486	0.0558
38	TAF115136	0.0604	0.0689
39	TAF120136	0.0183	0.0209
40	TAF125136	0.0118	0.0135
41	TAF130136	0.0374	0.0428
42	TAF120048	0.0063	0.0072
43	TAF130048	0.0335	0.0384
44	TAF120224	0.0706	0.0809
45	TAF130224	0.0081	0.0093

#	Name	Abs Diff	%Diff
46	EMPTY	0.0940	0.2460
47	EMPTY	0.0527	0.1344
48	TAI130048	0.0680	0.0776
49	TAI130136	0.0009	0.0010
50	TAI130224	0.0425	0.0484
51	TAI130312	0.0211	0.0242
52	TRR130000	0.0251	0.0292
53	TSI000001	0.0158	0.0196
54	TSI000002	0.0087	0.0114
55	TSO000001	0.0076	0.0101
56	TSO000002	0.0385	0.0506
57	TAF020136	0.0309	0.0356
58	TAF120312	0.0279	0.0321
59	TAF130312	0.0184	0.0212
60	EMPTY	0.0002	0.0406
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0000	0.0000
63	EMPTY	0.0004	0.0746
64	EMPTY	0.0006	0.1735
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0013	0.3382
67	EMPTY	0.0001	0.0249
68	EMPTY	0.0002	0.0481
69	EMPTY	0.0001	0.0230
70	EMPTY	0.0006	0.1329
71	EMPTY	0.0003	0.0633
72	EMPTY	0.0003	0.0614
73	EMPTY	0.0008	0.1570
74	EMPTY	0.0003	0.0569
75	EMPTY	0.0012	0.2203
76	EMPTY	0.0020	0.3564
77	EMPTY	0.0008	0.1377
78	EMPTY	0.0001	0.0166
79	EMPTY	0.0006	0.0959
80	PAN020136	0.0135	0.1120
81	PAN050136	0.0126	0.0541
82	PAN070136	0.0148	0.0944
83	PAN080136	0.0190	0.2409
84	PAN090136	0.0143	0.1836
85	PAN100136	0.0064	0.0768
86	PAN105136	0.0077	0.1965
87	PAN110136	0.0236	0.6348
88	PAN115136	0.0014	0.0378
89	PAN120136	0.0046	0.1233
90	PAN125136	0.0013	0.0346
91	PAN130136	0.0073	0.1883
92	PAN120048	0.0364	0.4250
93	PAN130048	0.0061	0.0817
94	PAN120224	0.0175	0.2161
95	PAN130224	0.0145	0.1907
96	PAN120312	0.0066	0.0858
97	PAN130312	0.0113	0.1469
98	PAB000136	0.0225	0.1044
99	PAB100136	0.0374	0.1539
100	PAB125136	0.0434	0.1742

Test: Jul31_11 dif Date: Tue Jul 31 11:29:01 1990 Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0344	0.1607
102	PRV000001	0.0121	0.0492
103	PSR000001	0.0274	0.1085
104	PFM000001	0.0272	0.5014
105	PAN000136	0.0873	0.0891
106	PFM000002	0.0358	0.6666
107	EMPTY	0.0006	22.2222
108	EMPTY	0.1612	2.0576
109	EMPTY	0.0001	7.6923
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0020	5.3191
113	VPW000002	0.0138	20.3240
114	VPW000003	0.0142	61.7391
115	VPW000004	0.0108	514.2858
116	VPW000005	0.0406	1691.6664
117	VPW000006	0.0366	31.8538
118	IPW000001	0.1713	24.5275
119	IPW000002	0.4054	112.0818
120	IPW000003	0.1608	54.1414
121	IPW000004	0.1108	59.7305
122	IPW000005	0.0604	105.2265
123	IPW000006	0.0718	225.0783
124	EMPTY	0.0013	6.5327
125	EMPTY	0.0003	2.2388
126	EMPTY	0.0003	1.8518
127	EMPTY	0.0006	3.7975
128	IHT000001	0.0189	331.5789
129	IHT000002	0.0037	925.0000
130	IHT000003	0.0120	6000.0005
131	IHT000004	0.0018	42.8571
132	IHT000005	0.0062	20.3279
133	IHT000006	0.0090	43.6893
134	IHT000007	0.0111	46.2500
135	IHT000008	0.0212	100.0000
136	IHT000009	0.0077	64.7059
137	IHT000010	0.0268	1410.5264
138	IHT000011	0.0186	57.0552
139	IHT000012	0.0219	144.0789
140	IHT000013	0.0167	695.8333
141	IHT000014	0.0058	13.9423
142	IHT000015	0.0037	88.0952
143	IHT000016	0.0259	76.6272
144	IHT000017	0.0256	177.7778
145	IHT000018	0.0058	52.7273
146	IHT000019	0.0317	19.2354
147	IHT000020	0.0171	48.1690
148	IHT000021	0.0256	56.2637
149	IHT000022	0.0101	246.3414
150	IHT000023	0.0044	36.0656
151	IHT000024	0.0196	36.8421
152	IHT000025	0.0044	15.0171
153	IHT000026	0.0041	56.9444
154	IHT000027	0.0073	30.5439
155	IHT000028	0.0197	86.4035

Test: Jul31_11 dif Date: Tue Jul 31 11:29:01 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0129	230.3572
157	IHT000030	0.0116	50.2164
158	IHT000031	0.0097	26.1456
159	IHT000032	0.0013	7.4713
160	IHT000033	0.0128	853.3333
161	IHT000034	0.0040	21.2766
162	IHT000035	0.0068	21.0526
163	IHT000036	0.0181	157.3913

Test: Jul31_12

sum1

Date: Tue Jul 31 11:31:42 1990

Page: 1

Velocity 1 = 4.0200 (ft/sec) (+/- 10.5662 %)
Velocity 2 = 4.0357 (ft/sec) (+/- 4.0838 %)
Pressure drop = -4.5001 (psi)
Tsat in = 229.1655 (deg F) Tsat out = 239.6538 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5563.3120 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3322.6621 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1637	1.9872e-01	1.9000e+00
1	TRF000002	73.5607	74.1978	73.9854	1.5470e-01	1.9000e+00
2	TFM000001	87.3682	88.1034	87.7506	1.9427e-01	1.9002e+00
3	TIN000001	86.3679	87.2098	86.8688	1.6285e-01	1.9002e+00
4	TRV000001	86.9463	87.5772	87.2243	1.7300e-01	1.9002e+00
5	TSR000001	86.6344	87.1614	86.8959	1.3980e-01	1.9002e+00
6	TAO020136	79.9474	80.7950	80.4516	2.4257e-01	1.9001e+00
7	TAO050136	86.7065	87.7549	87.2805	1.8649e-01	1.9002e+00
8	TAO070136	86.9297	87.6683	87.3222	1.9056e-01	1.9002e+00
9	TAO080136	86.7110	87.5506	87.2022	1.7933e-01	1.9002e+00
10	TAO090136	87.2815	88.2263	87.8110	2.1840e-01	1.9002e+00
11	TAO100136	86.8447	87.5813	87.1439	1.7955e-01	1.9002e+00
12	TAO105136	87.6659	88.8227	88.1874	2.3474e-01	1.9002e+00
13	TAO110136	87.1155	87.9530	87.5267	2.0402e-01	1.9002e+00
14	TAO115136	87.1721	88.1193	87.7276	2.1781e-01	1.9002e+00
15	TAO120136	86.7898	87.5268	87.2025	1.8400e-01	1.9002e+00
16	TAO125136	87.6376	88.3736	87.9533	1.8022e-01	1.9002e+00
17	TAO130136	86.6534	87.5943	87.1591	1.8604e-01	1.9002e+00
18	TAO120048	73.6026	74.3468	73.9809	1.6941e-01	1.9000e+00
19	TAO130048	86.7260	87.3567	87.0210	1.6601e-01	1.9002e+00
20	TAO120224	86.9399	87.7809	87.3602	1.8035e-01	1.9002e+00
21	TAO130224	86.8983	87.7350	87.3547	1.8445e-01	1.9002e+00
22	TAO120312	87.0267	87.6583	87.4516	1.7147e-01	1.9002e+00
23	TAO130312	86.7949	87.4262	87.1859	1.5915e-01	1.9002e+00
24	TRT020000	87.2993	88.1424	87.8053	2.2922e-01	1.9002e+00
25	TRT070000	87.1804	87.9193	87.6192	1.9573e-01	1.9002e+00
26	TRT100000	87.3459	88.2911	87.8542	2.2174e-01	1.9002e+00
27	TRT120000	87.2562	87.8876	87.5719	1.7652e-01	1.9002e+00
28	TRT125000	86.8270	87.9773	87.5838	2.0676e-01	1.9002e+00
29	TRT130000	87.0590	87.7953	87.3790	1.7773e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6516	1.9122e-01	1.9011e+00
31	TAF050136	87.5042	88.1348	87.8407	1.6564e-01	1.9002e+00
32	TAF070136	87.7051	88.4403	88.0999	1.8154e-01	1.9002e+00
33	TAF080136	87.2588	88.0965	87.6945	1.7764e-01	1.9002e+00
34	TAF090136	73.9407	75.0027	74.5694	2.8506e-01	1.9000e+00
35	TAF100136	87.1087	87.9504	87.5716	1.8904e-01	1.9002e+00
36	TAF105136	86.8033	88.0582	87.5355	2.8621e-01	1.9002e+00
37	TAF110136	87.0434	87.7792	87.3507	1.7997e-01	1.9002e+00
38	TAF115136	87.4325	88.4820	87.9404	2.1653e-01	1.9002e+00
39	TAF120136	87.4732	87.9998	87.7386	1.4469e-01	1.9002e+00
40	TAF125136	87.0347	88.3914	87.7620	2.8605e-01	1.9002e+00
41	TAF130136	87.2347	88.1800	87.6258	2.0033e-01	1.9002e+00
42	TAF120048	87.5026	88.4525	88.0047	2.2000e-01	1.9002e+00
43	TAF130048	87.2045	87.8358	87.5748	1.6628e-01	1.9002e+00
44	TAF120224	87.0906	88.2458	87.6704	2.2581e-01	1.9002e+00
45	TAF130224	86.7204	87.5640	87.1294	1.7644e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0940	2.1831e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2475	1.2414e-01	1.9010e+00
48	TAI130048	87.1978	88.5633	87.8999	3.1214e-01	1.9002e+00
49	TAI130136	86.7080	87.6534	87.1159	2.0855e-01	1.9002e+00
50	TAI130224	87.3357	88.7040	88.2578	3.2285e-01	1.9002e+00
51	TAI130312	87.0184	87.9656	87.4774	2.3842e-01	1.9002e+00
52	TRR130000	85.7717	86.7173	86.3012	2.5363e-01	1.9002e+00
53	TSI000001	80.1822	80.9225	80.4913	1.7064e-01	1.9001e+00
54	TSI000002	75.5797	76.6392	76.1520	2.7379e-01	1.9000e+00
55	TSO000001	75.1875	76.0387	75.5834	1.9825e-01	1.9000e+00
56	TSO000002	75.6272	76.5823	76.1575	1.9886e-01	1.9000e+00
57	TAF020136	86.5799	87.5307	87.0402	2.1084e-01	1.9002e+00
58	TAF120312	86.7494	87.8004	87.1787	2.4093e-01	1.9002e+00
59	TAF130312	86.4538	87.4002	86.9460	2.1395e-01	1.9002e+00
60	EMPTY	0.4932	0.5029	0.4980	9.8648e-04	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5125	9.6655e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5248	2.4642e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5413	1.7115e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3680	2.3675e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4197	9.6655e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4384	2.0432e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4780	1.4797e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4927	1.4797e-03	0.0000e+00
73	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5614	6.9053e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5810	6.9053e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6054	6.9053e-04	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6297	9.6655e-04	0.0000e+00
80	PAN020136	-15.5403	-15.2352	-15.3710	7.7514e-02	8.7085e-01
81	PAN050136	-29.8583	-29.4005	-29.6569	1.1302e-01	1.6816e+00
82	PAN070136	-19.9065	-19.7540	-19.8211	5.4800e-02	8.7141e-01
83	PAN080136	-10.1881	-9.8066	-9.9958	8.3348e-02	8.7036e-01
84	PAN090136	-10.0134	-9.7845	-9.9432	5.5232e-02	8.7036e-01
85	PAN100136	-10.2540	-10.0252	-10.1457	6.5558e-02	8.7037e-01
86	PAN105136	-5.0595	-4.7544	-4.9115	6.6135e-02	8.7009e-01
87	PAN110136	-4.9274	-4.6223	-4.7840	7.1703e-02	8.7008e-01
88	PAN115136	-4.8600	-4.6311	-4.7456	6.2135e-02	8.7008e-01
89	PAN120136	-5.0316	-4.8027	-4.9507	6.2440e-02	8.7009e-01
90	PAN125136	-4.9964	-4.8438	-4.9399	4.8277e-02	8.7009e-01
91	PAN130136	-4.9980	-4.7691	-4.8805	5.6022e-02	8.7009e-01
92	PAN120048	-10.8043	-10.5754	-10.6410	5.9717e-02	8.7041e-01
93	PAN130048	-9.7625	-9.6099	-9.6908	6.4314e-02	8.7034e-01
94	PAN120224	-10.1029	-9.7977	-9.9991	7.9735e-02	8.7036e-01
95	PAN130224	-9.9195	-9.6906	-9.8279	7.7069e-02	8.7035e-01
96	PAN120312	-9.9195	-9.7669	-9.8447	6.0664e-02	8.7035e-01
97	PAN130312	-9.9987	-9.7698	-9.9087	7.3422e-02	8.7035e-01
98	PAB000136	20.4634	20.6465	20.5485	3.8143e-02	5.8227e-01
99	PAB100136	23.9891	24.1264	24.0412	3.8143e-02	5.8311e-01
100	PAB125136	24.7946	24.9319	24.8486	3.8898e-02	5.8332e-01

Test: Jul31_12

sum1

Date: Tue Jul 31 11:31:42 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	20.2821	20.5262	20.4212	4.9385e-02	7.5174e-01
102	PRV000001	24.4677	24.5897	24.5824	2.9284e-02	7.5251e-01
103	PSR000001	25.2542	25.3763	25.3055	6.0861e-02	7.5266e-01
104	PFM000001	2.2589	2.5335	2.3962	8.5264e-02	5.0004e-01
105	PAN000136	-124.6699	-124.2121	-124.5875	1.7765e-01	4.9298e+00
106	PFM000002	2.3769	2.4440	2.4155	1.9548e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0013	3.5307e-03	0.0000e+00
108	EMPTY	-10.0000	0.8496	-7.5209	2.8537e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0007	1.9754e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0532	1.0507e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0835	9.5765e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0034	1.0595e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0174	1.1632e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0258	1.0741e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1071	1.0106e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.7374	1.1459e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.0285	1.2397e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4140	1.2136e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1367	2.2689e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.1258	3.1192e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0808	3.7239e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.1195e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5362e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0156	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.5141e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0216	1.0168e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0043	7.7324e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0077	6.2265e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0427	1.0014e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0305	9.7935e-02	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0284	9.0756e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0251	1.0145e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0116	7.8523e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0019	8.6541e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0053	8.8233e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0043	9.7377e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0054	9.0756e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0416	1.0595e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0003	6.7888e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0221	1.0559e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0105	3.1320e-01	4.1000e+00
145	IHT000018	-0.3117	0.0789	-0.0305	1.0559e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1843	1.1133e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0198	1.0992e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0275	9.3461e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0200	8.2393e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0649	7.9017e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0371	9.1779e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0045	8.1347e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0200	7.2330e-02	4.1000e+00
155	IHT000028	-0.1803	0.4056	-0.0006	1.3578e-01	4.1000e+00

Test: Jul31_12

sum1

Date: Tue Jul 31 11:31:42 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0134	9.6976e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0192	9.9902e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0644	1.2534e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0057	9.5112e-02	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0093	9.3043e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0227	8.3612e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0401	1.0885e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0115	1.0595e-01	4.1000e+00

Velocity 1 = 4.0421 (ft/sec) (+/- 10.4511 %)
Velocity 2 = 4.0481 (ft/sec) (+/- 4.0625 %)
Pressure drop = -4.4957 (psi)
Tsat in = 229.0501 (deg F) Tsat out = 239.5162 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3937.6682 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4012.4404 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1703	1.7994e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0028	1.4270e-01	1.9000e+00
2	TFM000001	87.4732	88.3139	87.8419	1.7698e-01	1.9002e+00
3	TIN000001	86.4730	87.2104	86.9027	1.7966e-01	1.9002e+00
4	TRV000001	86.6334	87.6822	87.1938	2.0915e-01	1.9002e+00
5	TSR000001	86.6359	87.1614	86.8649	1.4180e-01	1.9002e+00
6	TAO020136	79.8413	80.9006	80.4295	2.3584e-01	1.9001e+00
7	TAO050136	86.9151	87.6499	87.3007	1.8107e-01	1.9002e+00
8	TAO070136	86.9297	87.5627	87.3302	1.6804e-01	1.9002e+00
9	TAO080136	86.8161	87.8643	87.2314	1.9609e-01	1.9002e+00
10	TAO090136	87.4926	88.2272	87.8625	1.8818e-01	1.9002e+00
11	TAO100136	86.7399	87.4763	87.1350	1.4656e-01	1.9002e+00
12	TAO105136	87.7704	88.7173	88.2088	2.4983e-01	1.9002e+00
13	TAO110136	87.2206	88.0585	87.5416	1.7422e-01	1.9002e+00
14	TAO115136	87.4871	88.1188	87.7818	1.8091e-01	1.9002e+00
15	TAO120136	86.8949	87.5268	87.1916	1.5743e-01	1.9002e+00
16	TAO125136	87.7426	88.2682	87.9405	1.3170e-01	1.9002e+00
17	TAO130136	86.7584	87.3873	87.1294	1.5549e-01	1.9002e+00
18	TAO120048	73.7082	74.3468	73.9864	1.6650e-01	1.9000e+00
19	TAO130048	86.7279	87.4622	87.0248	1.5362e-01	1.9002e+00
20	TAO120224	87.0450	87.7809	87.3559	1.8462e-01	1.9002e+00
21	TAO130224	87.0028	87.7350	87.3619	1.6293e-01	1.9002e+00
22	TAO120312	87.0263	87.7633	87.3808	1.8069e-01	1.9002e+00
23	TAO130312	87.0044	87.6357	87.1853	1.5185e-01	1.9002e+00
24	TRT020000	87.5099	88.3530	87.8327	2.1970e-01	1.9002e+00
25	TRT070000	87.2854	87.9193	87.6303	1.6789e-01	1.9002e+00
26	TRT100000	87.5565	88.5004	87.9137	2.2844e-01	1.9002e+00
27	TRT120000	87.2562	87.8876	87.5826	1.6928e-01	1.9002e+00
28	TRT125000	87.2445	87.8723	87.6036	1.5983e-01	1.9002e+00
29	TRT130000	87.1640	87.7953	87.3834	1.4846e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6291	2.2100e-01	1.9011e+00
31	TAF050136	87.4006	88.2398	87.8583	1.6127e-01	1.9002e+00
32	TAF070136	87.7075	88.6489	88.1442	2.1113e-01	1.9002e+00
33	TAF080136	87.3633	88.0959	87.7141	1.5055e-01	1.9002e+00
34	TAF090136	74.0469	75.0027	74.5281	2.6256e-01	1.9000e+00
35	TAF100136	87.2132	88.0559	87.5789	1.9594e-01	1.9002e+00
36	TAF105136	87.0140	87.9550	87.5271	2.5039e-01	1.9002e+00
37	TAF110136	86.9393	87.6742	87.3549	1.7139e-01	1.9002e+00
38	TAF115136	87.4325	88.2727	87.9337	2.0234e-01	1.9002e+00
39	TAF120136	87.5782	87.9998	87.7505	1.1911e-01	1.9002e+00
40	TAF125136	87.2453	88.2887	87.7918	2.9694e-01	1.9002e+00
41	TAF130136	87.3403	87.9707	87.6018	1.4872e-01	1.9002e+00
42	TAF120048	87.5018	88.4525	88.0429	2.2563e-01	1.9002e+00
43	TAF130048	87.2055	87.9408	87.6016	1.7328e-01	1.9002e+00
44	TAF120224	87.1962	88.0364	87.6160	1.7407e-01	1.9002e+00
45	TAF130224	86.8260	87.6691	87.1270	1.6669e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1147	2.2073e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1793	1.0482e-01	1.9010e+00
48	TAI130048	87.1978	88.4590	87.8500	3.0240e-01	1.9002e+00
49	TAI130136	86.8130	87.6534	87.1819	2.2875e-01	1.9002e+00
50	TAI130224	87.4413	88.9143	88.2487	2.8764e-01	1.9002e+00
51	TAI130312	87.1234	87.9656	87.4760	2.1423e-01	1.9002e+00
52	TRR130000	85.8774	86.8224	86.3163	2.5671e-01	1.9002e+00
53	TSI000001	80.0777	80.9213	80.4869	1.7722e-01	1.9001e+00
54	TSI000002	75.6876	76.7439	76.1831	2.5553e-01	1.9000e+00
55	TSO000001	75.2936	76.0387	75.6110	1.9001e-01	1.9000e+00
56	TSO000002	75.7332	76.5823	76.0927	2.0187e-01	1.9000e+00
57	TAF020136	86.6850	87.4243	86.9956	1.7297e-01	1.9002e+00
58	TAF120312	86.7501	87.8010	87.2539	2.5643e-01	1.9002e+00
59	TAF130312	86.5595	87.4002	86.9539	1.7756e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4982	9.7615e-04	0.0000e+00
61	EMPTY	0.5078	0.5176	0.5126	1.2165e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5250	2.4662e-03	0.0000e+00
63	EMPTY	0.5322	0.5420	0.5413	1.9934e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3687	2.4662e-03	0.0000e+00
66	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
67	EMPTY	0.4004	0.4102	0.4052	1.2165e-03	0.0000e+00
68	EMPTY	0.4150	0.4248	0.4198	1.2165e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4379	2.3135e-03	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4781	1.3508e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4930	9.7615e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5125	9.7615e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5272	6.9754e-04	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5468	6.9754e-04	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6051	1.3508e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6295	1.3508e-03	0.0000e+00
80	PAN020136	-15.4640	-15.2352	-15.3753	7.6843e-02	8.7085e-01
81	PAN050136	-29.8583	-29.4005	-29.6216	1.3237e-01	1.6816e+00
82	PAN070136	-19.9065	-19.7540	-19.8194	5.8270e-02	8.7141e-01
83	PAN080136	-10.1118	-9.8066	-9.9841	8.5849e-02	8.7036e-01
84	PAN090136	-10.0134	-9.7845	-9.9402	6.7810e-02	8.7035e-01
85	PAN100136	-10.2540	-10.0252	-10.1513	6.8860e-02	8.7037e-01
86	PAN105136	-5.0595	-4.8307	-4.8992	5.6677e-02	8.7009e-01
87	PAN110136	-4.9274	-4.6223	-4.7686	6.3902e-02	8.7008e-01
88	PAN115136	-4.8600	-4.6311	-4.7495	5.6283e-02	8.7008e-01
89	PAN120136	-5.0316	-4.8027	-4.9568	5.7199e-02	8.7009e-01
90	PAN125136	-4.9964	-4.8438	-4.9341	4.8437e-02	8.7009e-01
91	PAN130136	-4.9980	-4.6928	-4.8625	6.4710e-02	8.7008e-01
92	PAN120048	-10.8043	-10.5754	-10.6532	6.1292e-02	8.7041e-01
93	PAN130048	-9.7625	-9.6099	-9.6925	5.7930e-02	8.7034e-01
94	PAN120224	-10.1792	-9.7977	-9.9799	9.1892e-02	8.7036e-01
95	PAN130224	-9.9958	-9.6906	-9.7903	8.4160e-02	8.7034e-01
96	PAN120312	-9.9958	-9.6906	-9.8338	7.0740e-02	8.7035e-01
97	PAN130312	-9.9987	-9.8461	-9.9115	5.8270e-02	8.7035e-01
98	PAB000136	20.4634	20.5549	20.5045	3.6484e-02	5.8226e-01
99	PAB100136	23.8975	24.0806	23.9900	4.4313e-02	5.8309e-01
100	PAB125136	24.7030	24.8403	24.7880	4.4813e-02	5.8330e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	20.4041	20.4041	20.4042	1.1563e-05	7.5173e-01
102	PRV000001	24.4677	24.5897	24.5872	1.7439e-02	7.5251e-01
103	PSR000001	25.1321	25.3763	25.2517	3.0414e-02	7.5265e-01
104	PFM000001	2.2589	2.5335	2.4233	7.4705e-02	5.0004e-01
105	PAN000136	-124.6699	-124.2121	-124.4643	2.3005e-01	4.9298e+00
106	PFM000002	2.3937	2.4776	2.4307	2.0258e-02	2.0009e-01
107	EMPTY	-0.0049	0.0098	0.0003	4.2763e-03	0.0000e+00
108	EMPTY	-10.0000	-2.5342	-8.2311	2.1912e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0007	1.7263e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0037	9.2540e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0541	9.8483e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0172	1.1348e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	0.0271	1.3174e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0216	1.1161e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0623	1.0625e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.5111	1.2589e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.0758	1.2204e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6535	1.1941e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2541	2.9041e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.1178	3.0996e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1037	3.2375e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.4527e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0049	-0.0121	2.6562e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	3.1000e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0146	3.4527e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0068	9.5812e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0113	6.9053e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0077	7.4477e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0175	1.0594e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0208	1.1362e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0235	8.4860e-02	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0248	7.9532e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0304	9.5132e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0157	6.1868e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0149	1.0076e-01	4.1000e+00
138	IHT000011	-0.0338	0.3568	0.0260	9.9303e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0252	1.1276e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0103	1.0941e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0477	1.1276e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0044	6.1868e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0557	1.1838e-01	4.1000e+00
144	IHT000017	-0.4582	0.7136	0.0918	3.1813e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0088	9.8153e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1805	1.0156e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0344	9.7656e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0438	9.8153e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0182	9.6150e-02	4.1000e+00
150	IHT000023	-0.0113	0.3793	0.0286	8.8965e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0734	8.6187e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0170	8.3122e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0150	6.9053e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0206	7.2937e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0089	1.1714e-01	4.1000e+00

Test: Jul31_12

sum2

Date: Tue Jul 31 11:31:42 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0105	1.0378e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0035	1.0156e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0468	1.2684e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0307	1.0409e-01	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0382	9.6150e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	9.7656e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0455	1.2413e-01	4.1000e+00
163	IHT000036	-0.2892	0.2967	0.0057	1.1362e-01	4.1000e+00

Test: Jul31_13

sum2

Date: Tue Jul 31 11:35:17 1990

Page: 1

Velocity 1 = 2.9996 (ft/sec) (+/- 19.1070 %)
Velocity 2 = 3.0225 (ft/sec) (+/- 6.9498 %)
Pressure drop = -4.8827 (psi)
Tsat in = 228.0936 (deg F) Tsat out = 239.5523 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3464.9224 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2138.6079 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2008	1.8587e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0201	1.3253e-01	1.9000e+00
2	TFM000001	87.6825	88.5229	88.1396	1.9480e-01	1.9002e+00
3	TIN000001	86.8936	87.5258	87.2571	1.4903e-01	1.9002e+00
4	TRV000001	87.1554	87.8912	87.4692	1.9076e-01	1.9002e+00
5	TSR000001	86.6344	87.3706	87.0935	1.5426e-01	1.9002e+00
6	TAO020136	80.1593	81.1122	80.4749	2.4784e-01	1.9001e+00
7	TAO050136	87.2281	88.0677	87.6400	1.6979e-01	1.9002e+00
8	TAO070136	87.1412	87.9841	87.6336	1.6440e-01	1.9002e+00
9	TAO080136	87.1288	87.8643	87.5065	1.6163e-01	1.9002e+00
10	TAO090136	87.8057	88.5412	88.1555	1.9443e-01	1.9002e+00
11	TAO100136	87.0545	87.7910	87.4626	1.6715e-01	1.9002e+00
12	TAO105136	87.8757	89.0328	88.5113	2.2619e-01	1.9002e+00
13	TAO110136	87.5319	88.1616	87.8753	1.5103e-01	1.9002e+00
14	TAO115136	87.4876	88.5398	88.0759	2.3218e-01	1.9002e+00
15	TAO120136	87.2100	87.7368	87.5111	1.2722e-01	1.9002e+00
16	TAO125136	87.8472	88.4782	88.2335	1.6672e-01	1.9002e+00
17	TAO130136	87.0675	87.8012	87.4361	1.9216e-01	1.9002e+00
18	TAO120048	74.0266	74.7712	74.3958	1.7909e-01	1.9000e+00
19	TAO130048	86.9354	87.6715	87.3091	1.4873e-01	1.9002e+00
20	TAO120224	87.2542	87.8858	87.6366	1.7130e-01	1.9002e+00
21	TAO130224	87.2109	87.9435	87.6743	1.6422e-01	1.9002e+00
22	TAO120312	87.2366	88.0789	87.6964	2.0792e-01	1.9002e+00
23	TAO130312	87.1089	87.8451	87.4783	1.8340e-01	1.9002e+00
24	TRT020000	87.7211	88.5634	88.0714	2.1963e-01	1.9002e+00
25	TRT070000	87.3918	88.3411	87.9041	1.9140e-01	1.9002e+00
26	TRT100000	87.6608	88.6041	88.1765	1.9957e-01	1.9002e+00
27	TRT120000	87.4665	88.2019	87.8887	1.5699e-01	1.9002e+00
28	TRT125000	87.4532	88.2914	87.9167	1.8993e-01	1.9002e+00
29	TRT130000	87.3742	88.0048	87.6979	1.4992e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5775	2.2292e-01	1.9011e+00
31	TAF050136	87.8183	88.5523	88.1763	1.6434e-01	1.9002e+00
32	TAF070136	87.9138	88.9611	88.4531	2.3501e-01	1.9002e+00
33	TAF080136	87.6772	88.4096	88.0055	1.6428e-01	1.9002e+00
34	TAF090136	74.1527	75.3206	74.7164	3.2060e-01	1.9000e+00
35	TAF100136	87.4238	88.5815	87.9161	2.0875e-01	1.9002e+00
36	TAF105136	87.3274	88.2664	87.7973	2.1641e-01	1.9002e+00
37	TAF110136	87.2524	87.9882	87.6942	1.7142e-01	1.9002e+00
38	TAF115136	87.7462	88.6912	88.2307	2.2843e-01	1.9002e+00
39	TAF120136	87.6822	88.4176	88.0044	1.4137e-01	1.9002e+00
40	TAF125136	87.5558	88.6018	88.1213	2.3800e-01	1.9002e+00
41	TAF130136	87.4441	88.2838	87.9117	1.7423e-01	1.9002e+00
42	TAF120048	87.8189	88.7686	88.3252	2.1959e-01	1.9002e+00
43	TAF130048	87.6238	88.1503	87.9076	1.4745e-01	1.9002e+00
44	TAF120224	87.5098	88.4552	87.9817	2.0905e-01	1.9002e+00
45	TAF130224	86.9313	87.7749	87.4605	1.9421e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1288	2.1506e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2636	1.1598e-01	1.9010e+00
48	TAI130048	87.5134	88.7736	88.2248	2.8451e-01	1.9002e+00
49	TAI130136	87.1280	87.8625	87.4959	1.9274e-01	1.9002e+00
50	TAI130224	87.7568	89.1246	88.5257	3.1357e-01	1.9002e+00
51	TAI130312	87.3337	88.1758	87.7442	1.8870e-01	1.9002e+00
52	TRR130000	86.0870	87.0318	86.5281	2.3457e-01	1.9002e+00
53	TSI000001	79.9715	80.8163	80.4205	1.4548e-01	1.9001e+00
54	TSI000002	75.4744	76.6392	76.0949	3.0920e-01	1.9000e+00
55	TSO000001	75.4002	76.2515	75.7435	1.9939e-01	1.9000e+00
56	TSO000002	75.6272	76.4763	76.1122	1.7195e-01	1.9000e+00
57	TAF020136	86.8966	87.6366	87.3256	1.8464e-01	1.9002e+00
58	TAF120312	87.0645	88.1158	87.5646	2.8724e-01	1.9002e+00
59	TAF130312	86.6646	87.7144	87.2600	1.8748e-01	1.9002e+00
60	EMPTY	0.5029	0.5078	0.5044	2.2737e-03	0.0000e+00
61	EMPTY	0.5176	0.5225	0.5199	2.4621e-03	0.0000e+00
62	EMPTY	0.5273	0.5371	0.5323	1.2165e-03	0.0000e+00
63	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3469	9.7615e-04	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3707	1.3508e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3859	9.7615e-04	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4054	6.9754e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4200	6.9754e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4394	6.9754e-04	0.0000e+00
70	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
71	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
72	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
73	EMPTY	0.5078	0.5176	0.5129	1.3951e-03	0.0000e+00
74	EMPTY	0.5273	0.5371	0.5285	2.3440e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5468	6.9754e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5617	9.7615e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5819	1.8234e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6054	6.9754e-04	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9754e-04	0.0000e+00
80	PAN020136	-16.7610	-16.6085	-16.6801	5.7025e-02	8.7100e-01
81	PAN050136	-32.4523	-31.8419	-32.1564	1.2226e-01	1.6819e+00
82	PAN070136	-21.6613	-21.3561	-21.4823	7.0599e-02	8.7166e-01
83	PAN080136	-10.9510	-10.6458	-10.8031	7.2057e-02	8.7042e-01
84	PAN090136	-10.8526	-10.6238	-10.7623	5.7587e-02	8.7042e-01
85	PAN100136	-11.0170	-10.7881	-10.9049	4.6984e-02	8.7043e-01
86	PAN105136	-5.4410	-5.2121	-5.3351	7.1054e-02	8.7010e-01
87	PAN110136	-5.3089	-5.0800	-5.1937	6.8101e-02	8.7010e-01
88	PAN115136	-5.3178	-5.0889	-5.2010	5.6371e-02	8.7010e-01
89	PAN120136	-5.5656	-5.2605	-5.4286	6.6035e-02	8.7011e-01
90	PAN125136	-5.5304	-5.3015	-5.3919	7.4156e-02	8.7010e-01
91	PAN130136	-5.3794	-5.1506	-5.2346	5.6677e-02	8.7010e-01
92	PAN120048	-11.5672	-11.3383	-11.4784	6.8500e-02	8.7047e-01
93	PAN130048	-10.6018	-10.4492	-10.5130	5.0095e-02	8.7040e-01
94	PAN120224	-10.8658	-10.5606	-10.6587	7.1366e-02	8.7041e-01
95	PAN130224	-10.7587	-10.5298	-10.6435	4.9548e-02	8.7041e-01
96	PAN120312	-10.7587	-10.5298	-10.6715	5.8270e-02	8.7041e-01
97	PAN130312	-10.8379	-10.6090	-10.7336	5.0927e-02	8.7041e-01
98	PAB000136	20.0972	20.1887	20.1420	3.6775e-02	5.8218e-01
99	PAB100136	23.8517	23.9891	23.9162	3.9554e-02	5.8307e-01
100	PAB125136	24.7488	24.8861	24.8039	4.0708e-02	5.8331e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.9159	20.0379	19.9184	1.7439e-02	7.5165e-01
102	PRV000001	24.4677	24.7118	24.5847	3.4877e-02	7.5251e-01
103	PSR000001	25.0100	25.3763	25.2741	6.2775e-02	7.5266e-01
104	PFM000001	1.2518	1.4349	1.3135	5.4124e-02	5.0001e-01
105	PAN000136	-135.1984	-134.7407	-135.1797	9.1514e-02	4.9316e+00
106	PFM000002	1.3198	1.3533	1.3342	8.3899e-03	2.0003e-01
107	EMPTY	-0.0049	0.0098	0.0008	4.3840e-03	0.0000e+00
108	EMPTY	-10.0000	0.8740	-7.7686	2.8347e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8997e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0874	1.1644e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0421	9.6990e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0013	1.2646e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0207	1.0044e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0655	9.7656e-02	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0902	1.2215e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.5111	1.0528e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.2030	1.2659e+00	8.1000e+00
120	IPW000003	-1.5750	4.2750	0.3750	1.3202e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1943	2.8619e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0979	2.2285e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1635	3.6077e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.2995e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.6752e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0163	3.5311e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.6883e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0291	9.6318e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0126	8.5810e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0122	7.8092e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0295	9.6150e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0327	1.1276e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0004	1.0315e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0089	8.5810e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	-0.0054	7.6412e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0042	6.8582e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0428	1.0625e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0220	8.9148e-02	4.1000e+00
139	IHT000012	-0.0864	0.6949	0.0093	1.3881e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0182	8.9148e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0637	1.2321e-01	4.1000e+00
142	IHT000015	-0.3981	0.1878	-0.0115	7.4477e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.1317	2.9965e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0287	9.8153e-02	4.1000e+00
146	IHT000019	-0.3718	0.2141	-0.1765	1.4917e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0623	1.0548e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0278	9.8483e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0102	9.7656e-02	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0166	6.9053e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0694	9.2189e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0289	9.1305e-02	4.1000e+00
153	IHT000026	0.0150	0.2104	0.0350	5.9734e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0206	7.2937e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0328	1.0941e-01	4.1000e+00

Test: Jul31_13

sum2

Date: Tue Jul 31 11:35:17 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0054	8.6187e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0035	8.4477e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0149	1.1546e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0067	8.7123e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0063	8.2338e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0330	1.1117e-01	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0415	9.3931e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0017	1.2041e-01	4.1000e+00

Test: Jul31_13 dif Date: Tue Jul 31 11:35:17 1990 Page: 1

Velocity 1 = 0.012800 (ft/sec)

Velocity 2 = 0.002600 (ft/sec)

Pressure Drop = 0.000000 (psi)

Tsat in = 0.070496 (deg F) Tsat out = 0.009995 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0456	0.0615
1	TRF000002	0.0177	0.0239
2	TFM000001	0.0223	0.0253
3	TIN000001	0.0052	0.0060
4	TRV000001	0.1361	0.1558
5	TSR000001	0.0386	0.0443
6	TAO020136	0.0063	0.0078
7	TAO050136	0.0837	0.0956
8	TAO070136	0.0077	0.0088
9	TAO080136	0.0537	0.0614
10	TAO090136	0.0134	0.0152
11	TAO100136	0.0712	0.0815
12	TAO105136	0.0506	0.0572
13	TAO110136	0.0697	0.0794
14	TAO115136	0.0834	0.0948
15	TAO120136	0.0314	0.0359
16	TAO125136	0.0162	0.0184
17	TAO130136	0.0285	0.0326
18	TAO120048	0.0095	0.0128
19	TAO130048	0.0538	0.0617
20	TAO120224	0.0246	0.0281
21	TAO130224	0.0617	0.0704
22	TAO120312	0.0261	0.0298
23	TAO130312	0.0537	0.0614
24	TRT020000	0.0260	0.0295
25	TRT070000	0.0397	0.0452
26	TRT100000	0.0210	0.0238
27	TRT120000	0.0610	0.0695
28	TRT125000	0.0700	0.0797
29	TRT130000	0.0800	0.0913
30	EMPTY	0.0649	0.1637
31	TAF050136	0.0555	0.0630
32	TAF070136	0.0319	0.0361
33	TAF080136	0.0652	0.0741
34	TAF090136	0.0496	0.0664
35	TAF100136	0.0709	0.0807
36	TAF105136	0.0327	0.0373
37	TAF110136	0.0759	0.0866
38	TAF115136	0.0069	0.0078
39	TAF120136	0.0359	0.0408
40	TAF125136	0.0196	0.0222
41	TAF130136	0.0030	0.0034
42	TAF120048	0.0333	0.0377
43	TAF130048	0.0142	0.0162
44	TAF120224	0.0054	0.0061
45	TAF130224	0.0485	0.0555

#	Name	Abs Diff	%Diff
46	EMPTY	0.0204	0.0535
47	EMPTY	0.0299	0.0762
48	TAI130048	0.0773	0.0877
49	TAI130136	0.0452	0.0517
50	TAI130224	0.0112	0.0127
51	TAI130312	0.0104	0.0119
52	TRR130000	0.0761	0.0880
53	TSI000001	0.0008	0.0010
54	TSI000002	0.1627	0.2134
55	TSO000001	0.1005	0.1329
56	TSO000002	0.0411	0.0540
57	TAF020136	0.0021	0.0024
58	TAF120312	0.0332	0.0379
59	TAF130312	0.0834	0.0957
60	EMPTY	0.0007	0.1390
61	EMPTY	0.0017	0.3281
62	EMPTY	0.0004	0.0752
63	EMPTY	0.0003	0.0549
64	EMPTY	0.0002	0.0577
65	EMPTY	0.0001	0.0270
66	EMPTY	0.0001	0.0259
67	EMPTY	0.0001	0.0247
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0001	0.0228
70	EMPTY	0.0001	0.0220
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0001	0.0203
73	EMPTY	0.0001	0.0195
74	EMPTY	0.0006	0.1137
75	EMPTY	0.0001	0.0183
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0002	0.0344
78	EMPTY	0.0001	0.0165
79	EMPTY	0.0001	0.0159
80	PAN020136	0.0016	0.0096
81	PAN050136	0.0002	0.0006
82	PAN070136	0.0087	0.0405
83	PAN080136	0.0090	0.0832
84	PAN090136	0.0095	0.0882
85	PAN100136	0.0146	0.1341
86	PAN105136	0.0128	0.2393
87	PAN110136	0.0038	0.0731
88	PAN115136	0.0068	0.1309
89	PAN120136	0.0140	0.2586
90	PAN125136	0.0110	0.2044
91	PAN130136	0.0258	0.4905
92	PAN120048	0.0043	0.0375
93	PAN130048	0.0043	0.0409
94	PAN120224	0.0149	0.1396
95	PAN130224	0.0099	0.0929
96	PAN120312	0.0216	0.2020
97	PAN130312	0.0021	0.0196
98	PAB000136	0.0266	0.1319
99	PAB100136	0.0051	0.0213
100	PAB125136	0.0044	0.0177

Test: Jul31_13

dif

Date: Tue Jul 31 11:35:17 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0976	0.4876
102	PRV000001	0.0026	0.0106
103	PSR000001	0.0631	0.2490
104	PFM000001	0.0115	0.8679
105	PAN000136	0.0004	0.0003
106	PFM000002	0.0024	0.1796
107	EMPTY	0.0017	188.8889
108	EMPTY	0.0886	1.1276
109	EMPTY	0.0002	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0186	27.0349
113	VPW000002	0.0016	3.9506
114	VPW000003	0.0490	97.4155
115	VPW000004	0.0006	2.8169
116	VPW000005	0.0553	542.1569
117	VPW000006	0.0182	25.2778
118	IPW000001	0.0470	10.1271
119	IPW000002	0.3329	62.1198
120	IPW000003	0.0780	26.2626
121	IPW000004	0.0108	5.2657
122	IPW000005	0.0698	248.3986
123	IPW000006	0.0534	48.5014
124	EMPTY	0.0004	2.0725
125	EMPTY	0.0006	4.3478
126	EMPTY	0.0004	2.5157
127	EMPTY	0.0015	10.0671
128	IHT000001	0.0270	1285.7144
129	IHT000002	0.0083	193.0232
130	IHT000003	0.0238	205.1724
131	IHT000004	0.0063	27.1552
132	IHT000005	0.0100	44.0529
133	IHT000006	0.0064	94.1176
134	IHT000007	0.0073	45.0617
135	IHT000008	0.0344	118.6207
136	IHT000009	0.0119	154.5455
137	IHT000010	0.0174	68.5039
138	IHT000011	0.0067	23.3449
139	IHT000012	0.0020	17.6991
140	IHT000013	0.0089	95.6989
141	IHT000014	0.0221	53.1250
142	IHT000015	0.0157	373.8095
143	IHT000016	0.0095	91.3462
144	IHT000017	0.0782	146.1682
145	IHT000018	0.0021	7.8947
146	IHT000019	0.0157	8.1686
147	IHT000020	0.0307	97.1519
148	IHT000021	0.0096	52.7472
149	IHT000022	0.0212	67.5159
150	IHT000023	0.0005	3.1056
151	IHT000024	0.0189	21.4043
152	IHT000025	0.0152	110.9489
153	IHT000026	0.0121	52.8384
154	IHT000027	0.0006	3.0000
155	IHT000028	0.0049	17.5627

Test: Jul31_13 dif Date: Tue Jul 31 11:35:17 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0086	61.4286
157	IHT000030	0.0118	77.1242
158	IHT000031	0.0052	53.6082
159	IHT000032	0.0088	419.0476
160	IHT000033	0.0048	320.0000
161	IHT000034	0.0401	564.7887
162	IHT000035	0.0326	366.2921
163	IHT000036	0.0020	54.0541

Test: Jul31_13

sum2

Date: Tue Jul 31 11:35:17 1990

Page: 1

Velocity 1 = 2.9996 (ft/sec) (+/- 19.1070 %)
Velocity 2 = 3.0225 (ft/sec) (+/- 6.9498 %)
Pressure drop = -4.8827 (psi)
Tsat in = 228.0936 (deg F) Tsat out = 239.5523 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3464.9224 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2138.6079 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2008	1.8587e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0201	1.3253e-01	1.9000e+00
2	TFM000001	87.6825	88.5229	88.1396	1.9480e-01	1.9002e+00
3	TIN000001	86.8936	87.5258	87.2571	1.4903e-01	1.9002e+00
4	TRV000001	87.1554	87.8912	87.4692	1.9076e-01	1.9002e+00
5	TSR000001	86.6344	87.3706	87.0935	1.5426e-01	1.9002e+00
6	TAO020136	80.1593	81.1122	80.4749	2.4784e-01	1.9001e+00
7	TAO050136	87.2281	88.0677	87.6400	1.6979e-01	1.9002e+00
8	TAO070136	87.1412	87.9841	87.6336	1.6440e-01	1.9002e+00
9	TAO080136	87.1288	87.8643	87.5065	1.6163e-01	1.9002e+00
10	TAO090136	87.8057	88.5412	88.1555	1.9443e-01	1.9002e+00
11	TAO100136	87.0545	87.7910	87.4626	1.6715e-01	1.9002e+00
12	TAO105136	87.8757	89.0328	88.5113	2.2619e-01	1.9002e+00
13	TAO110136	87.5319	88.1616	87.8753	1.5103e-01	1.9002e+00
14	TAO115136	87.4876	88.5398	88.0759	2.3218e-01	1.9002e+00
15	TAO120136	87.2100	87.7368	87.5111	1.2722e-01	1.9002e+00
16	TAO125136	87.8472	88.4782	88.2335	1.6672e-01	1.9002e+00
17	TAO130136	87.0675	87.8012	87.4361	1.9216e-01	1.9002e+00
18	TAO120048	74.0266	74.7712	74.3958	1.7909e-01	1.9000e+00
19	TAO130048	86.9354	87.6715	87.3091	1.4873e-01	1.9002e+00
20	TAO120224	87.2542	87.8858	87.6366	1.7130e-01	1.9002e+00
21	TAO130224	87.2109	87.9435	87.6743	1.6422e-01	1.9002e+00
22	TAO120312	87.2366	88.0789	87.6964	2.0792e-01	1.9002e+00
23	TAO130312	87.1089	87.8451	87.4783	1.8340e-01	1.9002e+00
24	TRT020000	87.7211	88.5634	88.0714	2.1963e-01	1.9002e+00
25	TRT070000	87.3918	88.3411	87.9041	1.9140e-01	1.9002e+00
26	TRT100000	87.6608	88.6041	88.1765	1.9957e-01	1.9002e+00
27	TRT120000	87.4665	88.2019	87.8887	1.5699e-01	1.9002e+00
28	TRT125000	87.4532	88.2914	87.9167	1.8993e-01	1.9002e+00
29	TRT130000	87.3742	88.0048	87.6979	1.4992e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5775	2.2292e-01	1.9011e+00
31	TAF050136	87.8183	88.5523	88.1763	1.6434e-01	1.9002e+00
32	TAF070136	87.9138	88.9611	88.4531	2.3501e-01	1.9002e+00
33	TAF080136	87.6772	88.4096	88.0055	1.6428e-01	1.9002e+00
34	TAF090136	74.1527	75.3206	74.7164	3.2060e-01	1.9000e+00
35	TAF100136	87.4238	88.5815	87.9161	2.0875e-01	1.9002e+00
36	TAF105136	87.3274	88.2664	87.7973	2.1641e-01	1.9002e+00
37	TAF110136	87.2524	87.9882	87.6942	1.7142e-01	1.9002e+00
38	TAF115136	87.7462	88.6912	88.2307	2.2843e-01	1.9002e+00
39	TAF120136	87.6822	88.4176	88.0044	1.4137e-01	1.9002e+00
40	TAF125136	87.5558	88.6018	88.1213	2.3800e-01	1.9002e+00
41	TAF130136	87.4441	88.2838	87.9117	1.7423e-01	1.9002e+00
42	TAF120048	87.8189	88.7686	88.3252	2.1959e-01	1.9002e+00
43	TAF130048	87.6238	88.1503	87.9076	1.4745e-01	1.9002e+00
44	TAF120224	87.5098	88.4552	87.9817	2.0905e-01	1.9002e+00
45	TAF130224	86.9313	87.7749	87.4605	1.9421e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0246e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2016	9.9068e-02	1.9010e+00
48	TAI130048	87.6178	88.8779	88.3218	3.0008e-01	1.9002e+00
49	TAI130136	87.1266	87.9667	87.6036	2.0682e-01	1.9002e+00
50	TAI130224	88.0728	89.2294	88.6597	2.8830e-01	1.9002e+00
51	TAI130312	87.4390	88.2809	87.8790	1.9897e-01	1.9002e+00
52	TRR130000	86.0875	86.9262	86.5674	2.0333e-01	1.9002e+00
53	TSI000001	80.0772	80.7119	80.3335	1.7613e-01	1.9001e+00
54	TSI000002	75.6863	76.8498	76.3233	2.3454e-01	1.9000e+00
55	TSO000001	75.2936	76.1455	75.7176	2.0229e-01	1.9000e+00
56	TSO000002	75.7332	76.6882	76.2530	1.9202e-01	1.9000e+00
57	TAF020136	87.2137	87.9527	87.4906	1.5207e-01	1.9002e+00
58	TAF120312	87.0645	88.2206	87.6805	2.9858e-01	1.9002e+00
59	TAF130312	86.9784	87.8194	87.3718	1.8608e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5227	9.6655e-04	0.0000e+00
62	EMPTY	0.5322	0.5371	0.5335	2.1635e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5493	2.4662e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3517	6.9053e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3748	2.1065e-03	0.0000e+00
66	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4101	6.9053e-04	0.0000e+00
68	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
69	EMPTY	0.4395	0.4492	0.4442	1.2041e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4589	6.9053e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4978	1.1714e-03	0.0000e+00
73	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5328	1.6028e-03	0.0000e+00
75	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5665	6.9053e-04	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
78	EMPTY	0.6055	0.6152	0.6104	9.8648e-04	0.0000e+00
79	EMPTY	0.6299	0.6396	0.6348	9.8648e-04	0.0000e+00
80	PAN020136	-17.7529	-17.6003	-17.6766	5.5575e-02	8.7112e-01
81	PAN050136	-34.1307	-33.8255	-34.0026	1.2082e-01	1.6821e+00
82	PAN070136	-22.8057	-22.5768	-22.6928	6.3999e-02	8.7185e-01
83	PAN080136	-11.5613	-11.2562	-11.3843	7.3016e-02	8.7047e-01
84	PAN090136	-11.4630	-11.2341	-11.3546	5.7858e-02	8.7046e-01
85	PAN100136	-11.5510	-11.2459	-11.4183	5.9318e-02	8.7047e-01
86	PAN105136	-5.7462	-5.5173	-5.6119	6.9891e-02	8.7011e-01
87	PAN110136	-5.6141	-5.3089	-5.4783	6.7698e-02	8.7011e-01
88	PAN115136	-5.6230	-5.3941	-5.5009	6.8932e-02	8.7011e-01
89	PAN120136	-5.9471	-5.6419	-5.7823	7.7621e-02	8.7012e-01
90	PAN125136	-5.8356	-5.5304	-5.7242	7.4258e-02	8.7012e-01
91	PAN130136	-5.6846	-5.5320	-5.6144	4.3158e-02	8.7011e-01
92	PAN120048	-12.0250	-11.9487	-11.9899	3.8411e-02	8.7052e-01
93	PAN130048	-11.2121	-10.9832	-11.1053	6.3552e-02	8.7044e-01
94	PAN120224	-11.3236	-11.0947	-11.2076	5.1676e-02	8.7045e-01
95	PAN130224	-11.4454	-11.1402	-11.2913	7.4705e-02	8.7046e-01
96	PAN120312	-11.4454	-11.2165	-11.3065	7.0111e-02	8.7046e-01
97	PAN130312	-11.5246	-11.2194	-11.3430	8.7043e-02	8.7046e-01
98	PAB000136	19.8225	19.9598	19.9067	3.6245e-02	5.8213e-01
99	PAB100136	23.8517	23.9433	23.8948	3.6304e-02	5.8307e-01
100	PAB125136	24.7946	24.8861	24.8422	3.9193e-02	5.8332e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	19.9159	20.0379	19.9184	1.7439e-02	7.5165e-01
102	PRV0000001	24.4677	24.7118	24.5847	3.4877e-02	7.5251e-01
103	PSR0000001	25.0100	25.3763	25.2741	6.2775e-02	7.5266e-01
104	PFM0000001	1.2518	1.4349	1.3135	5.4124e-02	5.0001e-01
105	PAN000136	-135.1984	-134.7407	-135.1797	9.1514e-02	4.9316e+00
106	PFM0000002	1.3198	1.3533	1.3342	8.3899e-03	2.0003e-01
107	EMPTY	-0.0049	0.0098	0.0008	4.3840e-03	0.0000e+00
108	EMPTY	-10.0000	0.8740	-7.7686	2.8347e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8997e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.7615e-04	0.0000e+00
112	VPW0000001	-0.0601	0.3305	0.0874	1.1644e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0421	9.6990e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0013	1.2646e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0207	1.0044e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0655	9.7656e-02	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0902	1.2215e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.5111	1.0528e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.2030	1.2659e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.3750	1.3202e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1943	2.8619e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0979	2.2285e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.1635	3.6077e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0197	3.2995e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.6752e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0163	3.5311e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.6883e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0291	9.6318e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0126	8.5810e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0122	7.8092e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	0.0295	9.6150e-02	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0327	1.1276e-01	4.1000e+00
133	IHT0000006	-0.1239	0.2667	-0.0004	1.0315e-01	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0089	8.5810e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	-0.0054	7.6412e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0042	6.8582e-02	4.1000e+00
137	IHT0000010	-0.0488	0.3418	0.0428	1.0625e-01	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0220	8.9148e-02	4.1000e+00
139	IHT0000012	-0.0864	0.6949	0.0093	1.3881e-01	4.1000e+00
140	IHT0000013	-0.1578	0.0376	-0.0182	8.9148e-02	4.1000e+00
141	IHT0000014	-0.2592	0.3268	0.0637	1.2321e-01	4.1000e+00
142	IHT0000015	-0.3981	0.1878	-0.0115	7.4477e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.1317	2.9965e-01	4.1000e+00
145	IHT0000018	-0.1164	0.0789	-0.0287	9.8153e-02	4.1000e+00
146	IHT0000019	-0.3718	0.2141	-0.1765	1.4917e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0623	1.0548e-01	4.1000e+00
148	IHT0000021	-0.0638	0.1315	0.0278	9.8483e-02	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0102	9.7656e-02	4.1000e+00
150	IHT0000023	-0.0113	0.1840	0.0166	6.9053e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0694	9.2189e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0289	9.1305e-02	4.1000e+00
153	IHT0000026	0.0150	0.2104	0.0350	5.9734e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0206	7.2937e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0328	1.0941e-01	4.1000e+00

Test: Jul31_14

sum1

Date: Tue Jul 31 11:38:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0212	1.0763e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0192	9.9902e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0176	1.2853e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0291	1.0358e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0328	1.0259e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	9.2456e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0401	1.1578e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0037	1.1334e-01	4.1000e+00

Test: Jul31_13 dif Date: Tue Jul 31 11:35:17 1990 Page: 1

Velocity 1 = 0.012800 (ft/sec)

Velocity 2 = 0.002600 (ft/sec)

Pressure Drop = 0.000000 (psi)

Tsat in = 0.070496 (deg F) Tsat out = 0.009995 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0456	0.0615
1	TRF000002	0.0177	0.0239
2	TFM000001	0.0223	0.0253
3	TIN000001	0.0052	0.0060
4	TRV000001	0.1361	0.1558
5	TSR000001	0.0386	0.0443
6	TAO020136	0.0063	0.0078
7	TAO050136	0.0837	0.0956
8	TAO070136	0.0077	0.0088
9	TAO080136	0.0537	0.0614
10	TAO090136	0.0134	0.0152
11	TAO100136	0.0712	0.0815
12	TAO105136	0.0506	0.0572
13	TAO110136	0.0697	0.0794
14	TAO115136	0.0834	0.0948
15	TAO120136	0.0314	0.0359
16	TAO125136	0.0162	0.0184
17	TAO130136	0.0285	0.0326
18	TAO120048	0.0095	0.0128
19	TAO130048	0.0538	0.0617
20	TAO120224	0.0246	0.0281
21	TAO130224	0.0617	0.0704
22	TAO120312	0.0261	0.0298
23	TAO130312	0.0537	0.0614
24	TRT020000	0.0260	0.0295
25	TRT070000	0.0397	0.0452
26	TRT100000	0.0210	0.0238
27	TRT120000	0.0610	0.0695
28	TRT125000	0.0700	0.0797
29	TRT130000	0.0800	0.0913
30	EMPTY	0.0649	0.1637
31	TAF050136	0.0555	0.0630
32	TAF070136	0.0319	0.0361
33	TAF080136	0.0652	0.0741
34	TAF090136	0.0496	0.0664
35	TAF100136	0.0709	0.0807
36	TAF105136	0.0327	0.0373
37	TAF110136	0.0759	0.0866
38	TAF115136	0.0069	0.0078
39	TAF120136	0.0359	0.0408
40	TAF125136	0.0196	0.0222
41	TAF130136	0.0030	0.0034
42	TAF120048	0.0333	0.0377
43	TAF130048	0.0142	0.0162
44	TAF120224	0.0054	0.0061
45	TAF130224	0.0485	0.0555

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1663	2.0335e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1933	9.3508e-02	1.9010e+00
48	TAI130048	87.6178	88.8779	88.3018	3.1796e-01	1.9002e+00
49	TAI130136	87.1280	87.9667	87.5853	1.8741e-01	1.9002e+00
50	TAI130224	88.0722	89.2300	88.6673	3.2099e-01	1.9002e+00
51	TAI130312	87.5440	88.2809	87.9072	1.7840e-01	1.9002e+00
52	TRR130000	86.1914	87.0305	86.5578	2.1205e-01	1.9002e+00
53	TSI000001	79.9715	80.6063	80.2913	1.7046e-01	1.9001e+00
54	TSI000002	75.6863	76.7439	76.2800	2.7221e-01	1.9000e+00
55	TSO000001	75.4002	76.0392	75.6958	1.6725e-01	1.9000e+00
56	TSO000002	75.8387	76.6877	76.2333	1.8884e-01	1.9000e+00
57	TAF020136	87.0030	87.8471	87.4898	1.7082e-01	1.9002e+00
58	TAF120312	87.2744	88.2206	87.6501	2.3683e-01	1.9002e+00
59	TAF130312	86.9784	87.7144	87.3839	1.9418e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5081	1.1827e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5226	6.9754e-04	0.0000e+00
62	EMPTY	0.5322	0.5371	0.5349	2.4538e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5502	2.3135e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3514	9.7615e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3726	2.2737e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3903	1.1827e-03	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4094	1.8234e-03	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4246	9.7615e-04	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4433	1.9883e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4589	6.9754e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4833	6.9754e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4974	1.6172e-03	0.0000e+00
73	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5324	9.7615e-04	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5516	9.7615e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5662	9.7615e-04	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5860	6.9754e-04	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6102	9.7615e-04	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6345	1.1827e-03	0.0000e+00
80	PAN020136	-17.7529	-17.6003	-17.6672	5.5352e-02	8.7112e-01
81	PAN050136	-34.2833	-33.8255	-34.0031	1.1798e-01	1.6821e+00
82	PAN070136	-22.8820	-22.5768	-22.6703	6.8355e-02	8.7184e-01
83	PAN080136	-11.5613	-11.2562	-11.3823	7.0599e-02	8.7047e-01
84	PAN090136	-11.4630	-11.2341	-11.3524	5.6283e-02	8.7046e-01
85	PAN100136	-11.5510	-11.2459	-11.4125	6.1655e-02	8.7047e-01
86	PAN105136	-5.7462	-5.5173	-5.6076	6.5470e-02	8.7011e-01
87	PAN110136	-5.6141	-5.3089	-5.4864	6.6780e-02	8.7011e-01
88	PAN115136	-5.6230	-5.3941	-5.4797	5.9572e-02	8.7011e-01
89	PAN120136	-5.9471	-5.6419	-5.7494	6.9504e-02	8.7012e-01
90	PAN125136	-5.8356	-5.6067	-5.7391	6.7481e-02	8.7012e-01
91	PAN130136	-5.6846	-5.4557	-5.5538	6.2294e-02	8.7011e-01
92	PAN120048	-12.1013	-11.8724	-11.9938	4.9046e-02	8.7052e-01
93	PAN130048	-11.2121	-10.9832	-11.1234	6.2966e-02	8.7044e-01
94	PAN120224	-11.3236	-11.0947	-11.1912	6.5659e-02	8.7045e-01
95	PAN130224	-11.4454	-11.1402	-11.2850	6.8319e-02	8.7046e-01
96	PAN120312	-11.4454	-11.2165	-11.3192	5.7328e-02	8.7046e-01
97	PAN130312	-11.4483	-11.2194	-11.3408	6.7737e-02	8.7046e-01
98	PAB000136	19.7767	19.9598	19.8589	4.3807e-02	5.8212e-01
99	PAB100136	23.7602	23.8975	23.8443	4.0024e-02	5.8306e-01
100	PAB125136	24.7030	24.8861	24.7880	4.1788e-02	5.8330e-01

Test: Jul31_13

dif

Date: Tue Jul 31 11:35:17 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0976	0.4876
102	PRV000001	0.0026	0.0106
103	PSR000001	0.0631	0.2490
104	PFM000001	0.0115	0.8679
105	PAN000136	0.0004	0.0003
106	PFM000002	0.0024	0.1796
107	EMPTY	0.0017	188.8889
108	EMPTY	0.0886	1.1276
109	EMPTY	0.0002	50.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0186	27.0349
113	VPW000002	0.0016	3.9506
114	VPW000003	0.0490	97.4155
115	VPW000004	0.0006	2.8169
116	VPW000005	0.0553	542.1569
117	VPW000006	0.0182	25.2778
118	IPW000001	0.0470	10.1271
119	IPW000002	0.3329	62.1198
120	IPW000003	0.0780	26.2626
121	IPW000004	0.0108	5.2657
122	IPW000005	0.0698	248.3986
123	IPW000006	0.0534	48.5014
124	EMPTY	0.0004	2.0725
125	EMPTY	0.0006	4.3478
126	EMPTY	0.0004	2.5157
127	EMPTY	0.0015	10.0671
128	IHT000001	0.0270	1285.7144
129	IHT000002	0.0083	193.0232
130	IHT000003	0.0238	205.1724
131	IHT000004	0.0063	27.1552
132	IHT000005	0.0100	44.0529
133	IHT000006	0.0064	94.1176
134	IHT000007	0.0073	45.0617
135	IHT000008	0.0344	118.6207
136	IHT000009	0.0119	154.5455
137	IHT000010	0.0174	68.5039
138	IHT000011	0.0067	23.3449
139	IHT000012	0.0020	17.6991
140	IHT000013	0.0089	95.6989
141	IHT000014	0.0221	53.1250
142	IHT000015	0.0157	373.8095
143	IHT000016	0.0095	91.3462
144	IHT000017	0.0782	146.1682
145	IHT000018	0.0021	7.8947
146	IHT000019	0.0157	8.1686
147	IHT000020	0.0307	97.1519
148	IHT000021	0.0096	52.7472
149	IHT000022	0.0212	67.5159
150	IHT000023	0.0005	3.1056
151	IHT000024	0.0189	21.4043
152	IHT000025	0.0152	110.9489
153	IHT000026	0.0121	52.8384
154	IHT000027	0.0006	3.0000
155	IHT000028	0.0049	17.5627

Test: Jul31_14

sum2

Date: Tue Jul 31 11:38:14 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0015	9.7490e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0115	8.4477e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0388	1.1319e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0012	9.9792e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0103	1.0188e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0011	8.2141e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0335	9.9303e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0217	1.1219e-01	4.1000e+00

Velocity 1 = 2.0468 (ft/sec) (+/- 42.0890 %)
 Velocity 2 = 2.0918 (ft/sec) (+/- 14.5637 %)
 Pressure drop = -5.1625 (psi)
 Tsat in = 227.4664 (deg F) Tsat out = 239.6393 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3766.3669 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4041.4355 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2064	1.8313e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9897	1.3217e-01	1.9000e+00
2	TFM000001	87.8929	88.8381	88.3529	2.1727e-01	1.9002e+00
3	TIN000001	87.1046	87.7362	87.4308	1.5957e-01	1.9002e+00
4	TRV000001	87.0518	87.9953	87.5696	2.2041e-01	1.9002e+00
5	TSR000001	86.8456	87.7888	87.2956	1.8282e-01	1.9002e+00
6	TAO020136	80.0536	81.1121	80.5977	2.4392e-01	1.9001e+00
7	TAO050136	87.3332	88.1727	87.7592	1.9009e-01	1.9002e+00
8	TAO070136	87.3521	88.1950	87.7166	1.9427e-01	1.9002e+00
9	TAO080136	87.3376	87.9681	87.6723	1.7183e-01	1.9002e+00
10	TAO090136	87.8063	88.7501	88.2952	2.1372e-01	1.9002e+00
11	TAO100136	87.2643	87.8957	87.5614	1.4984e-01	1.9002e+00
12	TAO105136	88.1911	89.0329	88.6395	2.2369e-01	1.9002e+00
13	TAO110136	87.5319	88.3696	87.9828	1.7738e-01	1.9002e+00
14	TAO115136	87.5929	88.6447	88.1335	2.3663e-01	1.9002e+00
15	TAO120136	87.2100	87.9467	87.6962	1.5174e-01	1.9002e+00
16	TAO125136	87.8472	88.7926	88.3914	1.7462e-01	1.9002e+00
17	TAO130136	87.2745	87.9026	87.5756	1.5229e-01	1.9002e+00
18	TAO120048	74.0266	74.7712	74.4203	1.8004e-01	1.9000e+00
19	TAO130048	87.0410	87.6715	87.4125	1.4909e-01	1.9002e+00
20	TAO120224	87.3593	88.2005	87.8031	1.7426e-01	1.9002e+00
21	TAO130224	87.4189	88.2564	87.7897	1.7594e-01	1.9002e+00
22	TAO120312	87.4470	88.1839	87.8534	1.6741e-01	1.9002e+00
23	TAO130312	87.3184	87.8451	87.6154	1.3392e-01	1.9002e+00
24	TRT020000	87.8263	88.7740	88.2750	2.0934e-01	1.9002e+00
25	TRT070000	87.7082	88.4474	88.0567	1.7081e-01	1.9002e+00
26	TRT100000	87.8696	88.6046	88.3043	1.8950e-01	1.9002e+00
27	TRT120000	87.6757	88.4115	88.0144	1.6625e-01	1.9002e+00
28	TRT125000	87.6613	88.4999	88.0535	2.0823e-01	1.9002e+00
29	TRT130000	87.4782	88.2142	87.8171	1.6897e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.0870e-01	1.9011e+00
31	TAF050136	87.9224	88.6578	88.3530	1.7257e-01	1.9002e+00
32	TAF070136	88.1244	88.9611	88.5821	2.0374e-01	1.9002e+00
33	TAF080136	87.7804	88.5128	88.1384	1.5867e-01	1.9002e+00
34	TAF090136	74.1536	75.3206	74.7454	2.9531e-01	1.9000e+00
35	TAF100136	87.6348	88.4767	88.0704	1.8542e-01	1.9002e+00
36	TAF105136	87.3256	88.5795	87.9377	2.4236e-01	1.9002e+00
37	TAF110136	87.4631	88.1971	87.8212	1.7236e-01	1.9002e+00
38	TAF115136	88.0611	88.6912	88.3864	1.8506e-01	1.9002e+00
39	TAF120136	87.8912	88.4176	88.1756	1.3485e-01	1.9002e+00
40	TAF125136	87.8696	88.8099	88.2723	2.3483e-01	1.9002e+00
41	TAF130136	87.6535	88.3893	88.0635	1.7523e-01	1.9002e+00
42	TAF120048	87.9252	88.8740	88.4841	1.8361e-01	1.9002e+00
43	TAF130048	87.6238	88.4644	88.0465	1.8562e-01	1.9002e+00
44	TAF120224	87.6153	88.5596	88.1251	2.3607e-01	1.9002e+00
45	TAF130224	87.2476	87.9857	87.5997	1.6439e-01	1.9002e+00

#	Name	Abs Diff	%Diff
46	EMPTY	0.0309	0.0810
47	EMPTY	0.0083	0.0212
48	TAI130048	0.0200	0.0226
49	TAI130136	0.0183	0.0209
50	TAI130224	0.0076	0.0086
51	TAI130312	0.0282	0.0321
52	TRR130000	0.0096	0.0111
53	TSI000001	0.0422	0.0525
54	TSI000002	0.0433	0.0567
55	TSO000001	0.0218	0.0288
56	TSO000002	0.0197	0.0258
57	TAF020136	0.0008	0.0009
58	TAF120312	0.0304	0.0347
59	TAF130312	0.0121	0.0138
60	EMPTY	0.0002	0.0394
61	EMPTY	0.0001	0.0191
62	EMPTY	0.0014	0.2624
63	EMPTY	0.0009	0.1638
64	EMPTY	0.0003	0.0853
65	EMPTY	0.0022	0.5870
66	EMPTY	0.0003	0.0768
67	EMPTY	0.0007	0.1707
68	EMPTY	0.0002	0.0471
69	EMPTY	0.0009	0.2026
70	EMPTY	0.0000	0.0000
71	EMPTY	0.0000	0.0000
72	EMPTY	0.0004	0.0804
73	EMPTY	0.0000	0.0000
74	EMPTY	0.0004	0.0751
75	EMPTY	0.0002	0.0363
76	EMPTY	0.0003	0.0530
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0002	0.0328
79	EMPTY	0.0003	0.0473
80	PAN020136	0.0094	0.0532
81	PAN050136	0.0005	0.0015
82	PAN070136	0.0225	0.0992
83	PAN080136	0.0020	0.0176
84	PAN090136	0.0022	0.0194
85	PAN100136	0.0058	0.0508
86	PAN105136	0.0043	0.0766
87	PAN110136	0.0081	0.1479
88	PAN115136	0.0212	0.3854
89	PAN120136	0.0329	0.5690
90	PAN125136	0.0149	0.2603
91	PAN130136	0.0606	1.0794
92	PAN120048	0.0039	0.0325
93	PAN130048	0.0181	0.1630
94	PAN120224	0.0164	0.1463
95	PAN130224	0.0063	0.0558
96	PAN120312	0.0127	0.1123
97	PAN130312	0.0022	0.0194
98	PAB000136	0.0478	0.2401
99	PAB100136	0.0505	0.2113
100	PAB125136	0.0542	0.2182

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.7938	19.9159	19.8304	5.6508e-02	7.5164e-01
102	PRV000001	24.5897	24.5897	24.5897	7.7069e-06	7.5252e-01
103	PSR000001	25.3763	25.4983	25.3836	2.9284e-02	7.5268e-01
104	PFM000001	0.4278	0.7025	0.5944	7.5564e-02	5.0000e-01
105	PAN000136	-143.4382	-142.5226	-142.9255	1.7644e-01	4.9330e+00
106	PFM000002	0.5983	0.6318	0.6221	9.0266e-03	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0019	3.6765e-03	0.0000e+00
108	EMPTY	-10.0000	-2.1680	-7.9770	2.0208e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	1.9331e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0180	9.6655e-02	8.1000e-01
113	VPW000002	-0.0376	0.3530	0.0718	1.1942e-01	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0425	1.0885e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0135	9.6655e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0484	1.0559e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0837	1.1679e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.7765	1.1574e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.1666	1.3679e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2580	1.1425e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.5515e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1062	3.1749e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.3540e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.0945e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.6267e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.9594e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.4173e-03	0.0000e+00
128	IHT000001	-0.1503	0.0451	-0.0057	8.6541e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0043	8.6810e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	5.5243e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0198	9.4702e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0344	1.0507e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0245	9.3043e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0407	9.7377e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0116	6.7888e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0020	8.4262e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0026	7.2330e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0035	9.8332e-02	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0288	9.3461e-02	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0221	1.0559e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0003	5.5243e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0808	2.6043e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0383	1.2478e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1453	1.0705e-01	4.1000e+00
147	IHT000020	-0.3005	0.2855	0.0433	1.1545e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
149	IHT000022	-0.0939	0.2967	-0.0041	1.0595e-01	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0278	7.8918e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0844	9.3043e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0122	8.4997e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0123	9.6735e-02	4.1000e+00

Test: Jul31_14 dif Date: Tue Jul 31 11:38:14 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0227	107.0755
157	IHT000030	0.0077	40.1042
158	IHT000031	0.0212	120.4546
159	IHT000032	0.0303	104.1237
160	IHT000033	0.0225	68.5976
161	IHT000034	0.0160	107.3825
162	IHT000035	0.0066	16.4589
163	IHT000036	0.0180	486.4865

Velocity 1 = 2.0493 (ft/sec) (+/- 41.9810 %)
 Velocity 2 = 2.0921 (ft/sec) (+/- 14.5604 %)
 Pressure drop = -5.1540 (psi)
 Tsat in = 227.3383 (deg F) Tsat out = 239.5162 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2909.9651 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3493.1462 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1573	1.7492e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9854	1.2261e-01	1.9000e+00
2	TFM000001	87.8929	88.8381	88.3921	2.1271e-01	1.9002e+00
3	TIN000001	87.1040	87.8410	87.4374	1.4791e-01	1.9002e+00
4	TRV000001	86.9463	87.8898	87.4860	2.0063e-01	1.9002e+00
5	TSR000001	86.9487	87.4747	87.2640	1.4543e-01	1.9002e+00
6	TAO020136	80.1592	81.0066	80.5915	2.1158e-01	1.9001e+00
7	TAO050136	87.3332	88.0677	87.7378	1.6314e-01	1.9002e+00
8	TAO070136	87.3516	88.3003	87.7585	1.7212e-01	1.9002e+00
9	TAO080136	87.3376	87.9681	87.6596	1.6072e-01	1.9002e+00
10	TAO090136	87.8063	88.6452	88.2836	1.9038e-01	1.9002e+00
11	TAO100136	87.1596	87.8952	87.5480	1.4278e-01	1.9002e+00
12	TAO105136	88.1911	88.9280	88.5928	1.9636e-01	1.9002e+00
13	TAO110136	87.6369	88.3696	87.9937	1.6547e-01	1.9002e+00
14	TAO115136	87.5924	88.5398	88.1359	2.1613e-01	1.9002e+00
15	TAO120136	87.2100	87.8418	87.6652	1.4791e-01	1.9002e+00
16	TAO125136	87.9522	88.6877	88.3403	1.5792e-01	1.9002e+00
17	TAO130136	87.1725	87.9031	87.5326	1.5553e-01	1.9002e+00
18	TAO120048	73.9205	74.6645	74.3437	1.6308e-01	1.9000e+00
19	TAO130048	87.1447	87.7757	87.4070	1.3932e-01	1.9002e+00
20	TAO120224	87.3598	88.0956	87.7735	1.6401e-01	1.9002e+00
21	TAO130224	87.4189	88.1514	87.8011	1.5042e-01	1.9002e+00
22	TAO120312	87.5520	88.1831	87.8294	1.6735e-01	1.9002e+00
23	TAO130312	87.2145	87.9489	87.5892	1.5173e-01	1.9002e+00
24	TRT020000	87.8263	88.6691	88.2175	2.3151e-01	1.9002e+00
25	TRT070000	87.6032	88.4474	88.0380	1.7971e-01	1.9002e+00
26	TRT100000	87.8696	88.7046	88.3172	1.6685e-01	1.9002e+00
27	TRT120000	87.6757	88.3060	88.0212	1.4554e-01	1.9002e+00
28	TRT125000	87.5563	88.2894	87.9547	1.7740e-01	1.9002e+00
29	TRT130000	87.3742	88.1087	87.7575	1.5694e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6806	2.0630e-01	1.9011e+00
31	TAF050136	88.0279	88.6563	88.3125	1.5141e-01	1.9002e+00
32	TAF070136	88.1225	88.9611	88.5848	2.1761e-01	1.9002e+00
33	TAF080136	87.8832	88.3047	88.1368	1.2465e-01	1.9002e+00
34	TAF090136	74.0483	75.2145	74.7378	3.0617e-01	1.9000e+00
35	TAF100136	87.8448	88.3717	88.0921	1.5428e-01	1.9002e+00
36	TAF105136	87.5339	88.3685	87.9243	2.3007e-01	1.9002e+00
37	TAF110136	87.4631	88.0916	87.7920	1.4530e-01	1.9002e+00
38	TAF115136	88.0605	88.6900	88.3629	1.8610e-01	1.9002e+00
39	TAF120136	87.8912	88.3127	88.1534	1.1400e-01	1.9002e+00
40	TAF125136	87.7640	88.7049	88.2526	2.6685e-01	1.9002e+00
41	TAF130136	87.6535	88.2843	88.0097	1.7518e-01	1.9002e+00
42	TAF120048	88.0302	88.9802	88.4590	2.1793e-01	1.9002e+00
43	TAF130048	87.6238	88.4644	88.0143	1.7929e-01	1.9002e+00
44	TAF120224	87.7203	88.3503	88.0798	1.6869e-01	1.9002e+00
45	TAF130224	87.2473	87.8802	87.5553	1.5787e-01	1.9002e+00

Test: Jul31_15

sum1

Date: Tue Jul 31 11:40:50 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.1367e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2750	1.2414e-01	1.9010e+00
48	TAI130048	87.8282	89.0882	88.5524	2.9777e-01	1.9002e+00
49	TAI130136	87.3372	88.0717	87.7331	1.6988e-01	1.9002e+00
50	TAI130224	88.2832	89.4397	88.9203	2.8141e-01	1.9002e+00
51	TAI130312	87.7548	88.4905	88.0848	1.6319e-01	1.9002e+00
52	TRR130000	86.4009	87.5543	86.7348	2.0820e-01	1.9002e+00
53	TSI000001	79.9727	80.7119	80.2996	1.6424e-01	1.9001e+00
54	TSI000002	75.6863	76.7451	76.2175	3.0925e-01	1.9000e+00
55	TSC000001	75.4002	76.2515	75.8196	1.9632e-01	1.9000e+00
56	TSO000002	75.7332	76.4758	76.1935	1.7228e-01	1.9000e+00
57	TAF020136	87.3196	87.8480	87.5919	1.5241e-01	1.9002e+00
58	TAF120312	87.3800	88.5346	87.8860	2.6897e-01	1.9002e+00
59	TAF130312	87.2931	87.9234	87.5519	1.5043e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5124	1.1714e-03	0.0000e+00
61	EMPTY	0.5225	0.5322	0.5272	1.2041e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5384	2.1635e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5536	2.3941e-03	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3546	2.5894e-03	0.0000e+00
65	EMPTY	0.3711	0.3809	0.3760	9.8648e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3919	2.1635e-03	0.0000e+00
67	EMPTY	0.4053	0.4150	0.4108	1.9754e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4252	1.3381e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
70	EMPTY	0.4590	0.4688	0.4613	2.8317e-03	0.0000e+00
71	EMPTY	0.4785	0.4883	0.4837	1.5314e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
73	EMPTY	0.5176	0.5273	0.5195	2.6100e-03	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5531	2.2146e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5693	2.4164e-03	0.0000e+00
77	EMPTY	0.5859	0.5957	0.5901	1.9754e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6108	1.4797e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6354	1.7115e-03	0.0000e+00
80	PAN020136	-14.0145	-13.7856	-13.9122	7.6465e-02	8.7069e-01
81	PAN050136	-26.9591	-26.5013	-26.7089	1.1435e-01	1.6813e+00
82	PAN070136	-18.1518	-17.8466	-18.0053	6.8656e-02	8.7116e-01
83	PAN080136	-9.1199	-8.8911	-8.9902	6.7627e-02	8.7029e-01
84	PAN090136	-9.0979	-8.8690	-8.9911	6.8932e-02	8.7029e-01
85	PAN100136	-9.4911	-9.2622	-9.3660	5.2858e-02	8.7032e-01
86	PAN105136	-4.5255	-4.3729	-4.4644	5.1121e-02	8.7007e-01
87	PAN110136	-4.4697	-4.2408	-4.3354	5.4626e-02	8.7007e-01
88	PAN115136	-4.4023	-4.1734	-4.2695	5.2970e-02	8.7007e-01
89	PAN120136	-4.4975	-4.3449	-4.4212	5.7673e-02	8.7007e-01
90	PAN125136	-4.6149	-4.2334	-4.3753	6.8949e-02	8.7007e-01
91	PAN130136	-4.5402	-4.3876	-4.4899	4.5228e-02	8.7007e-01
92	PAN120048	-9.8124	-9.5836	-9.7072	5.5339e-02	8.7034e-01
93	PAN130048	-8.7707	-8.5418	-8.6258	6.2135e-02	8.7027e-01
94	PAN120224	-9.2636	-9.0348	-9.1172	6.6903e-02	8.7030e-01
95	PAN130224	-8.9277	-8.7751	-8.8453	6.1346e-02	8.7028e-01
96	PAN120312	-9.0040	-8.8514	-8.9063	5.5660e-02	8.7028e-01
97	PAN130312	-9.0069	-8.7780	-8.8955	5.6022e-02	8.7028e-01
98	PAB000136	20.9669	21.1500	21.0466	4.2189e-02	5.8238e-01
99	PAB100136	24.1264	24.2637	24.2124	4.3022e-02	5.8315e-01
100	PAB125136	24.8403	24.9777	24.9246	3.8533e-02	5.8334e-01

Test: Jul31_14

sum2

Date: Tue Jul 31 11:38:14 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.6717	19.7938	19.7465	6.0094e-02	7.5162e-01
102	PRV000001	24.4677	24.5897	24.5872	1.7439e-02	7.5251e-01
103	PSR000001	25.2542	25.3763	25.3414	5.5717e-02	7.5267e-01
104	PFM000001	0.4278	0.7940	0.5960	7.5559e-02	5.0000e-01
105	PAN000136	-142.9804	-142.5226	-142.6908	2.2297e-01	4.9329e+00
106	PFM000002	0.6150	0.6318	0.6222	8.3899e-03	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0010	3.5908e-03	0.0000e+00
108	EMPTY	-10.0000	-3.1250	-8.1794	1.9784e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0356	9.8648e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0541	9.8483e-02	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0013	9.8153e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0486	1.0156e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0376	1.0548e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0822	1.0315e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.7502	1.3448e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	0.1233	1.0538e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3750	1.1258e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1644	2.7016e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1776	2.6749e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.2233	2.9765e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0195	3.7293e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.8191e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0156	3.3026e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.7075e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0132	8.3122e-02	4.1000e+00
129	IHT000002	-0.2066	0.3793	0.0206	9.2189e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0117	7.9328e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0295	1.1146e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0287	1.0594e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	-0.0004	9.5132e-02	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0248	7.9532e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0304	9.5132e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0038	7.9736e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0030	8.7123e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0180	8.7123e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0133	9.8648e-02	4.1000e+00
140	IHT000013	-0.3531	0.0376	-0.0182	9.7656e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0477	1.0548e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0164	6.4688e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0238	1.0594e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0001	2.6908e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0088	1.2646e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1885	9.2715e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0104	1.0486e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0398	9.8483e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0221	1.0315e-01	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0326	8.2338e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0734	9.4962e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0409	6.8582e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0009	7.8092e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0366	8.4860e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0129	9.7656e-02	4.1000e+00

Test: Jul31_15

sum1

Date: Tue Jul 31 11:40:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
157	IHT000030	-0.1878	0.5935	0.0349	1.3093e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0449	1.2627e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0057	9.5112e-02	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0093	1.0106e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	1.1161e-01	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0128	9.6655e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0272	9.5765e-02	4.1000e+00

Test: Jul31_14 dif Date: Tue Jul 31 11:38:14 1990 Page: 1

Velocity 1 = 0.002500 (ft/sec)

Velocity 2 = 0.000300 (ft/sec)

Pressure Drop = 0.008500 (psi)

Tsat in = 0.128098 (deg F) Tsat out = 0.123093 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0491	0.0662
1	TRF000002	0.0043	0.0058
2	TFM000001	0.0392	0.0444
3	TIN000001	0.0066	0.0075
4	TRV000001	0.0836	0.0955
5	TSR000001	0.0316	0.0362
6	TAO020136	0.0062	0.0077
7	TAO050136	0.0214	0.0244
8	TAO070136	0.0419	0.0478
9	TAO080136	0.0127	0.0145
10	TAO090136	0.0116	0.0131
11	TAO100136	0.0134	0.0153
12	TAO105136	0.0467	0.0527
13	TAO110136	0.0109	0.0124
14	TAO115136	0.0024	0.0027
15	TAO120136	0.0310	0.0353
16	TAO125136	0.0511	0.0578
17	TAO130136	0.0430	0.0491
18	TAO120048	0.0766	0.1029
19	TAO130048	0.0055	0.0063
20	TAO120224	0.0296	0.0337
21	TAO130224	0.0114	0.0130
22	TAO120312	0.0240	0.0273
23	TAO130312	0.0262	0.0299
24	TRT020000	0.0575	0.0651
25	TRT070000	0.0187	0.0212
26	TRT100000	0.0129	0.0146
27	TRT120000	0.0068	0.0077
28	TRT125000	0.0988	0.1122
29	TRT130000	0.0596	0.0679
30	EMPTY	0.0520	0.1312
31	TAF050136	0.0405	0.0458
32	TAF070136	0.0027	0.0030
33	TAF080136	0.0016	0.0018
34	TAF090136	0.0076	0.0102
35	TAF100136	0.0217	0.0246
36	TAF105136	0.0134	0.0152
37	TAF110136	0.0292	0.0332
38	TAF115136	0.0235	0.0266
39	TAF120136	0.0222	0.0252
40	TAF125136	0.0197	0.0223
41	TAF130136	0.0538	0.0611
42	TAF120048	0.0251	0.0284
43	TAF130048	0.0322	0.0366
44	TAF120224	0.0453	0.0514
45	TAF130224	0.0444	0.0507

Test: Jul31_12

dif

Date: Tue Jul 31 11:31:42 1990

Page: 1

#	Name	Abs Diff	%Diff
46	EMPTY	0.0207	0.0543
47	EMPTY	0.0682	0.1738
48	TAI130048	0.0499	0.0568
49	TAI130136	0.0660	0.0758
50	TAI130224	0.0091	0.0103
51	TAI130312	0.0014	0.0016
52	TRR130000	0.0151	0.0175
53	TSI000001	0.0044	0.0055
54	TSI000002	0.0311	0.0408
55	TSO000001	0.0276	0.0365
56	TSO000002	0.0648	0.0851
57	TAF020136	0.0446	0.0512
58	TAF120312	0.0752	0.0863
59	TAF130312	0.0079	0.0091
60	EMPTY	0.0002	0.0402
61	EMPTY	0.0001	0.0195
62	EMPTY	0.0002	0.0381
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0007	0.1902
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0001	0.0247
68	EMPTY	0.0001	0.0238
69	EMPTY	0.0005	0.1140
70	EMPTY	0.0001	0.0220
71	EMPTY	0.0001	0.0209
72	EMPTY	0.0003	0.0609
73	EMPTY	0.0002	0.0390
74	EMPTY	0.0003	0.0569
75	EMPTY	0.0001	0.0183
76	EMPTY	0.0001	0.0178
77	EMPTY	0.0001	0.0172
78	EMPTY	0.0003	0.0496
79	EMPTY	0.0002	0.0318
80	PAN020136	0.0043	0.0280
81	PAN050136	0.0353	0.1190
82	PAN070136	0.0017	0.0086
83	PAN080136	0.0117	0.1170
84	PAN090136	0.0030	0.0302
85	PAN100136	0.0056	0.0552
86	PAN105136	0.0123	0.2504
87	PAN110136	0.0154	0.3219
88	PAN115136	0.0039	0.0822
89	PAN120136	0.0061	0.1232
90	PAN125136	0.0058	0.1174
91	PAN130136	0.0180	0.3688
92	PAN120048	0.0122	0.1147
93	PAN130048	0.0017	0.0175
94	PAN120224	0.0192	0.1920
95	PAN130224	0.0376	0.3826
96	PAN120312	0.0109	0.1107
97	PAN130312	0.0028	0.0283
98	PAB000136	0.0440	0.2141
99	PAB100136	0.0512	0.2130
100	PAB125136	0.0606	0.2439

#	Name	Abs Diff	%Diff
101	PIN000001	0.0839	0.4231
102	PRV000001	0.0025	0.0102
103	PSR000001	0.0422	0.1662
104	PFM000001	0.0016	0.2692
105	PAN000136	0.2347	0.1642
106	PFM000002	0.0001	0.0161
107	EMPTY	0.0009	47.3684
108	EMPTY	0.2024	2.5373
109	EMPTY	0.0003	75.0000
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	100.0000
112	VPW000001	0.0176	97.7778
113	VPW000002	0.0177	24.6518
114	VPW000003	0.0412	96.9412
115	VPW000004	0.0351	260.0000
116	VPW000005	0.0860	177.6859
117	VPW000006	0.0015	1.7921
118	IPW000001	0.0263	3.3870
119	IPW000002	0.2899	174.0096
120	IPW000003	0.1170	45.3488
121	IPW000004	0.0082	5.2497
122	IPW000005	0.0714	67.2316
123	IPW000006	0.1718	333.5922
124	EMPTY	0.0004	2.0942
125	EMPTY	0.0007	5.5556
126	EMPTY	0.0010	6.0241
127	EMPTY	0.0004	2.7397
128	IHT000001	0.0189	331.5789
129	IHT000002	0.0163	379.0698
130	IHT000003	0.0158	385.3658
131	IHT000004	0.0493	248.9899
132	IHT000005	0.0057	16.5698
133	IHT000006	0.0249	101.6327
134	IHT000007	0.0125	101.6260
135	IHT000008	0.0103	25.3071
136	IHT000009	0.0078	67.2414
137	IHT000010	0.0050	250.0000
138	IHT000011	0.0206	792.3076
139	IHT000012	0.0098	280.0000
140	IHT000013	0.0106	36.8056
141	IHT000014	0.0256	115.8371
142	IHT000015	0.0161	5366.6670
143	IHT000016	0.0100	29.5858
144	IHT000017	0.0807	99.8762
145	IHT000018	0.0295	77.0235
146	IHT000019	0.0432	29.7316
147	IHT000020	0.0329	75.9815
148	IHT000021	0.0138	53.0769
149	IHT000022	0.0180	439.0244
150	IHT000023	0.0048	17.2662
151	IHT000024	0.0110	13.0332
152	IHT000025	0.0272	198.5401
153	IHT000026	0.0198	104.7619
154	IHT000027	0.0244	200.0000
155	IHT000028	0.0006	4.8781

Test: Jul31_12

dif

Date: Tue Jul 31 11:31:42 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0029	21.6418
157	IHT000030	0.0157	81.7708
158	IHT000031	0.0176	27.3292
159	IHT000032	0.0250	438.5965
160	IHT000033	0.0289	310.7527
161	IHT000034	0.0039	17.1806
162	IHT000035	0.0054	13.4663
163	IHT000036	0.0058	50.4348

Test: Jul31_15

sum1

Date: Tue Jul 31 11:40:50 1990

Page: 1

Velocity 1 = 5.0060 (ft/sec) (+/- 6.8742 %)
Velocity 2 = 4.9911 (ft/sec) (+/- 2.9371 %)
Pressure drop = -4.0725 (psi)
Tsat in = 230.4588 (deg F) Tsat out = 239.8261 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2269.7393 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1785.1346 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1338	1.6070e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0449	1.4255e-01	1.9000e+00
2	TFM000001	87.8929	88.8376	88.4198	2.2980e-01	1.9002e+00
3	TIN000001	87.1046	87.9465	87.4769	1.5363e-01	1.9002e+00
4	TRV000001	87.3661	88.5182	87.7241	2.1267e-01	1.9002e+00
5	TSR000001	87.1579	87.6833	87.4167	1.3452e-01	1.9002e+00
6	TAO020136	80.2648	81.1122	80.6145	2.1306e-01	1.9001e+00
7	TAO050136	87.5422	88.3815	87.9136	1.7237e-01	1.9002e+00
8	TAO070136	87.4572	88.3003	87.9273	1.7835e-01	1.9002e+00
9	TAO080136	87.4432	88.0731	87.7973	1.5258e-01	1.9002e+00
10	TAO090136	88.0153	88.8556	88.4877	2.0682e-01	1.9002e+00
11	TAO100136	87.3693	88.0007	87.7332	1.5050e-01	1.9002e+00
12	TAO105136	88.4019	89.2431	88.8118	2.1162e-01	1.9002e+00
13	TAO110136	87.8456	88.5771	88.1865	1.5222e-01	1.9002e+00
14	TAO115136	88.0130	88.7494	88.3857	1.9496e-01	1.9002e+00
15	TAO120136	87.6301	88.1567	87.8681	1.3743e-01	1.9002e+00
16	TAO125136	88.1622	88.8965	88.5420	1.4373e-01	1.9002e+00
17	TAO130136	87.3801	88.2150	87.7450	1.4802e-01	1.9002e+00
18	TAO120048	74.1328	74.6645	74.3522	1.3820e-01	1.9000e+00
19	TAO130048	87.4590	87.8807	87.6424	1.2355e-01	1.9002e+00
20	TAO120224	87.6747	88.2005	87.9666	1.3814e-01	1.9002e+00
21	TAO130224	87.6269	88.2538	87.9725	1.5405e-01	1.9002e+00
22	TAO120312	87.6576	88.2887	88.0173	1.6061e-01	1.9002e+00
23	TAO130312	87.4234	88.0544	87.7869	1.4439e-01	1.9002e+00
24	TRT020000	87.9319	88.8792	88.4307	1.8995e-01	1.9002e+00
25	TRT070000	87.9196	88.5523	88.2425	1.5565e-01	1.9002e+00
26	TRT100000	88.1839	88.9187	88.5175	1.8304e-01	1.9002e+00
27	TRT120000	87.8853	88.5164	88.1610	1.5584e-01	1.9002e+00
28	TRT125000	87.8699	88.7083	88.2200	2.0118e-01	1.9002e+00
29	TRT130000	87.7927	88.3182	87.9845	1.2514e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5827	2.2362e-01	1.9011e+00
31	TAF050136	88.1329	88.8667	88.4698	1.7505e-01	1.9002e+00
32	TAF070136	88.4361	89.2745	88.7821	1.8815e-01	1.9002e+00
33	TAF080136	87.9882	88.6178	88.2589	1.7319e-01	1.9002e+00
34	TAF090136	74.2598	75.3206	74.7664	2.5013e-01	1.9000e+00
35	TAF100136	87.8448	88.4767	88.2049	1.7154e-01	1.9002e+00
36	TAF105136	87.6384	88.7875	88.1706	2.7429e-01	1.9002e+00
37	TAF110136	87.5666	88.3005	87.9422	1.5448e-01	1.9002e+00
38	TAF115136	87.9567	89.1095	88.5033	2.4355e-01	1.9002e+00
39	TAF120136	87.9967	88.6265	88.3592	1.3116e-01	1.9002e+00
40	TAF125136	87.7646	89.0179	88.3845	2.7284e-01	1.9002e+00
41	TAF130136	87.9678	88.5985	88.2140	1.6504e-01	1.9002e+00
42	TAF120048	88.0308	89.0851	88.6445	2.3988e-01	1.9002e+00
43	TAF130048	87.7293	88.5693	88.1720	1.7524e-01	1.9002e+00
44	TAF120224	87.8248	88.6630	88.2673	1.9686e-01	1.9002e+00
45	TAF130224	87.4588	88.0910	87.7345	1.5916e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1492	1.9492e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.2337	1.3031e-01	1.9010e+00
48	TAI130048	87.5127	88.8785	88.1475	3.0586e-01	1.9002e+00
49	TAI130136	86.9173	87.8625	87.4507	2.1904e-01	1.9002e+00
50	TAI130224	87.8618	89.0197	88.5145	2.6715e-01	1.9002e+00
51	TAI130312	87.3337	88.0708	87.7338	1.9244e-01	1.9002e+00
52	TRR130000	85.8762	87.1356	86.4520	2.5361e-01	1.9002e+00
53	TSI000001	79.9715	80.8163	80.4197	1.8664e-01	1.9001e+00
54	TSI000002	75.6876	76.8498	76.2576	2.9295e-01	1.9000e+00
55	TSO000001	75.2936	76.1452	75.6430	1.6937e-01	1.9000e+00
56	TSO000002	75.6266	76.6877	76.1533	2.0670e-01	1.9000e+00
57	TAF020136	86.8966	87.6363	87.3235	1.7451e-01	1.9002e+00
58	TAF120312	87.1693	88.1158	87.5314	2.4570e-01	1.9002e+00
59	TAF130312	86.6636	87.5043	87.1766	1.9299e-01	1.9002e+00
60	EMPTY	0.4932	0.5078	0.5037	2.4878e-03	0.0000e+00
61	EMPTY	0.5176	0.5225	0.5182	1.6028e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5466	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3706	1.4797e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4201	9.6655e-04	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4395	1.3951e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9053e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4931	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5279	1.8821e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5617	9.6655e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5817	1.7115e-03	0.0000e+00
78	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
79	EMPTY	0.6250	0.6445	0.6301	2.1970e-03	0.0000e+00
80	PAN020136	-16.7610	-16.5322	-16.6817	6.1578e-02	8.7100e-01
81	PAN050136	-32.4523	-31.8419	-32.1562	1.2101e-01	1.6819e+00
82	PAN070136	-21.6613	-21.3561	-21.4736	6.9293e-02	8.7165e-01
83	PAN080136	-10.9510	-10.6458	-10.8121	7.6589e-02	8.7042e-01
84	PAN090136	-10.8526	-10.7001	-10.7718	4.9732e-02	8.7042e-01
85	PAN100136	-10.9407	-10.7881	-10.8903	4.7782e-02	8.7043e-01
86	PAN105136	-5.4410	-5.2121	-5.3479	6.4092e-02	8.7010e-01
87	PAN110136	-5.3089	-5.0800	-5.1975	7.2641e-02	8.7010e-01
88	PAN115136	-5.3178	-5.0126	-5.1942	6.5195e-02	8.7010e-01
89	PAN120136	-5.4893	-5.2605	-5.4146	6.0664e-02	8.7011e-01
90	PAN125136	-5.5304	-5.3015	-5.3809	7.3857e-02	8.7010e-01
91	PAN130136	-5.3794	-5.1506	-5.2604	6.9207e-02	8.7010e-01
92	PAN120048	-11.5672	-11.3383	-11.4741	5.8267e-02	8.7047e-01
93	PAN130048	-10.6018	-10.3729	-10.5087	5.1791e-02	8.7040e-01
94	PAN120224	-10.7895	-10.5606	-10.6736	6.3999e-02	8.7041e-01
95	PAN130224	-10.7587	-10.5298	-10.6534	5.0865e-02	8.7041e-01
96	PAN120312	-10.8350	-10.5298	-10.6931	6.7204e-02	8.7041e-01
97	PAN130312	-10.8379	-10.5327	-10.7357	5.8916e-02	8.7041e-01
98	PAB000136	20.0972	20.2345	20.1686	3.7177e-02	5.8219e-01
99	PAB100136	23.8517	23.9891	23.9213	3.6104e-02	5.8307e-01
100	PAB125136	24.7488	24.8861	24.8083	3.8411e-02	5.8331e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	20.8924	21.0145	20.9632	6.0861e-02	7.5183e-01
102	PRV0000001	24.5897	24.5897	24.5897	7.7069e-06	7.5252e-01
103	PSR0000001	25.2542	25.6204	25.3543	6.8390e-02	7.5267e-01
104	PFM0000001	3.5406	3.9068	3.7494	8.4842e-02	5.0009e-01
105	PAN000136	-113.2258	-112.3102	-112.7497	1.2948e-01	4.9281e+00
106	PFM0000002	3.6522	3.7696	3.7267	2.5405e-02	2.0022e-01
107	EMPTY	-0.0049	0.0049	0.0016	3.9998e-03	0.0000e+00
108	EMPTY	-10.0000	-2.9639	-8.2865	1.8702e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0006	1.8821e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.2554	0.3305	0.0180	1.1161e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0718	9.7935e-02	8.1000e-01
114	VPW0000003	-0.2817	0.1089	-0.0044	1.0507e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0252	1.0447e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	-0.0288	1.2232e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0954	1.0625e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.8545	1.1760e+00	8.1000e+00
119	IPW0000002	-2.6642	1.2383	-0.2446	1.2189e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.4920	1.2085e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.2051	2.1702e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0184	3.6228e-01	2.0000e+00
123	IPW0000006	-0.5540	0.4226	0.1101	3.0819e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0194	3.6232e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	2.7709e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0160	2.9660e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	2.8523e-03	0.0000e+00
128	IHT0000001	-0.3456	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0239	9.4125e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	-0.0038	7.8918e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0192	1.1272e-01	4.1000e+00
132	IHT0000005	-0.0789	0.1164	0.0617	8.8585e-02	4.1000e+00
133	IHT0000006	-0.3193	0.0714	0.0167	9.6976e-02	4.1000e+00
134	IHT0000007	-0.0150	0.1803	0.0201	7.5798e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0485	9.8332e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0041	6.7888e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0209	8.8585e-02	4.1000e+00
139	IHT0000012	-0.2817	0.3042	0.0074	1.1327e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0210	9.8648e-02	4.1000e+00
141	IHT0000014	-0.0639	0.1314	0.0494	9.7377e-02	4.1000e+00
142	IHT0000015	-0.0075	0.1878	0.0042	4.6855e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
144	IHT0000017	-0.4582	0.5183	-0.0325	2.8913e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	0.0125	1.1578e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1765	8.8233e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0511	1.0440e-01	4.1000e+00
148	IHT0000021	-0.2591	0.3268	0.0416	1.1306e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT0000023	-0.0113	0.1840	0.0434	8.8585e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0922	9.6976e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0150	5.5804e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0006	1.1732e-01	4.1000e+00

Test: Jul31_13

sum1

Date: Tue Jul 31 11:35:17 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	-0.0140	6.8459e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0153	6.7888e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0097	1.0625e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	-0.0021	8.1729e-02	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0015	8.8233e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0071	7.2866e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0037	1.0625e-01	4.1000e+00

Velocity 1 = 5.0100 (ft/sec) (+/- 6.8636 %)
Velocity 2 = 4.9898 (ft/sec) (+/- 2.9382 %)
Pressure drop = -4.0654 (psi)
Tsats in = 230.6000 (deg F) Tsats out = 239.9146 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3941.2942 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 512.3665 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.1616	1.8545e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0418	1.4229e-01	1.9000e+00
2	TFM000001	87.9979	88.7333	88.4435	1.9107e-01	1.9002e+00
3	TIN000001	87.2096	87.8410	87.5147	1.5685e-01	1.9002e+00
4	TRV000001	87.2610	88.3092	87.7763	2.1700e-01	1.9002e+00
5	TSR000001	87.1579	87.7888	87.4349	1.8401e-01	1.9002e+00
6	TAO020136	80.2649	81.3238	80.7167	2.2228e-01	1.9001e+00
7	TAO050136	87.6477	88.2766	87.9256	1.4646e-01	1.9002e+00
8	TAO070136	87.3516	88.4057	87.9563	2.1701e-01	1.9002e+00
9	TAO080136	87.4432	88.2818	87.8046	1.7660e-01	1.9002e+00
10	TAO090136	88.0153	89.0650	88.4974	2.1946e-01	1.9002e+00
11	TAO100136	87.3693	88.2103	87.7449	1.8587e-01	1.9002e+00
12	TAO105136	88.4015	89.3478	88.8288	2.0966e-01	1.9002e+00
13	TAO110136	87.8456	88.5771	88.1851	1.8329e-01	1.9002e+00
14	TAO115136	88.0130	88.8549	88.3590	2.2820e-01	1.9002e+00
15	TAO120136	87.5251	88.1567	87.8795	1.6314e-01	1.9002e+00
16	TAO125136	88.1622	89.0020	88.5541	1.6306e-01	1.9002e+00
17	TAO130136	87.3801	88.2150	87.7653	1.8251e-01	1.9002e+00
18	TAO120048	74.1328	74.7712	74.4001	1.5520e-01	1.9000e+00
19	TAO130048	87.3553	88.0898	87.6548	1.6754e-01	1.9002e+00
20	TAO120224	87.5691	88.4103	88.0005	1.7863e-01	1.9002e+00
21	TAO130224	87.6269	88.3587	88.0051	1.9793e-01	1.9002e+00
22	TAO120312	87.6576	88.3941	88.0268	1.7857e-01	1.9002e+00
23	TAO130312	87.4239	88.0544	87.8115	1.4758e-01	1.9002e+00
24	TRT020000	87.9314	88.7741	88.4194	1.9659e-01	1.9002e+00
25	TRT070000	87.9201	88.5523	88.2275	1.5640e-01	1.9002e+00
26	TRT100000	88.0789	89.0229	88.5564	2.4596e-01	1.9002e+00
27	TRT120000	87.8853	88.5164	88.2137	1.7247e-01	1.9002e+00
28	TRT125000	87.8699	88.6034	88.2613	1.9336e-01	1.9002e+00
29	TRT130000	87.7927	88.4236	88.0056	1.3835e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6525	2.5224e-01	1.9011e+00
31	TAF050136	88.1329	88.8667	88.4790	1.6471e-01	1.9002e+00
32	TAF070136	88.4367	89.2745	88.7850	2.2234e-01	1.9002e+00
33	TAF080136	87.9882	88.6178	88.2900	1.7719e-01	1.9002e+00
34	TAF090136	74.2603	75.4257	74.8330	2.7450e-01	1.9000e+00
35	TAF100136	87.8448	88.7919	88.2252	2.2513e-01	1.9002e+00
36	TAF105136	87.6389	88.7875	88.1115	2.5040e-01	1.9002e+00
37	TAF110136	87.5671	88.3011	87.9542	1.8819e-01	1.9002e+00
38	TAF115136	88.1660	89.0041	88.5850	1.8778e-01	1.9002e+00
39	TAF120136	87.9967	88.6265	88.3752	1.4525e-01	1.9002e+00
40	TAF125136	87.9722	89.0179	88.4567	2.7096e-01	1.9002e+00
41	TAF130136	87.8640	88.5985	88.2191	1.8160e-01	1.9002e+00
42	TAF120048	88.0308	89.0851	88.5838	2.2115e-01	1.9002e+00
43	TAF130048	87.9383	88.5693	88.2325	1.8435e-01	1.9002e+00
44	TAF120224	87.9293	88.6645	88.2935	1.8935e-01	1.9002e+00
45	TAF130224	87.4582	88.0907	87.7789	1.8115e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1100	2.0521e-01	1.9010e+00
47	EMPTY	38.6870	39.6057	39.2355	1.4687e-01	1.9010e+00
48	TAI130048	88.0381	88.9828	88.5630	2.2368e-01	1.9002e+00
49	TAI130136	87.2322	88.2808	87.7775	2.1611e-01	1.9002e+00
50	TAI130224	88.2827	89.5451	88.8647	2.9756e-01	1.9002e+00
51	TAI130312	87.6495	88.4905	88.0873	2.0179e-01	1.9002e+00
52	TRR130000	86.2965	87.2412	86.7545	2.3241e-01	1.9002e+00
53	TSI000001	79.8671	80.7119	80.2785	1.7686e-01	1.9001e+00
54	TSI000002	75.6858	76.6386	76.1206	2.3393e-01	1.9000e+00
55	TSO000001	75.5068	76.3581	75.8651	2.2326e-01	1.9000e+00
56	TSO000002	75.7332	76.5823	76.2073	2.3344e-01	1.9000e+00
57	TAF020136	87.3187	87.9535	87.5975	1.9705e-01	1.9002e+00
58	TAF120312	87.2744	88.4298	87.8942	2.8200e-01	1.9002e+00
59	TAF130312	86.9790	87.8194	87.5337	1.8816e-01	1.9002e+00
60	EMPTY	0.5078	0.5176	0.5126	1.5727e-03	0.0000e+00
61	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5386	2.2737e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5534	2.3135e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3552	2.1215e-03	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3762	9.7615e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3918	2.1215e-03	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4110	1.8234e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4252	1.3508e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4445	9.7615e-04	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4607	2.3483e-03	0.0000e+00
71	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4982	9.7615e-04	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5182	1.6172e-03	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5355	2.3135e-03	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5524	1.6172e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5674	1.9883e-03	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5877	2.3783e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6107	1.1827e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6349	6.9754e-04	0.0000e+00
80	PAN020136	-14.0145	-13.7093	-13.8728	6.6072e-02	8.7069e-01
81	PAN050136	-26.8065	-26.5013	-26.7069	1.0117e-01	1.6813e+00
82	PAN070136	-18.1518	-17.8466	-17.9743	6.8572e-02	8.7116e-01
83	PAN080136	-9.1962	-8.8911	-8.9876	7.2672e-02	8.7029e-01
84	PAN090136	-9.0979	-8.7164	-8.9889	7.7867e-02	8.7029e-01
85	PAN100136	-9.4911	-9.2622	-9.3588	5.7801e-02	8.7031e-01
86	PAN105136	-4.6018	-4.2966	-4.4554	6.1975e-02	8.7007e-01
87	PAN110136	-4.4697	-4.1645	-4.3311	6.5470e-02	8.7007e-01
88	PAN115136	-4.4023	-4.1734	-4.2684	5.7285e-02	8.7007e-01
89	PAN120136	-4.4975	-4.2686	-4.4103	5.8270e-02	8.7007e-01
90	PAN125136	-4.5386	-4.2334	-4.3751	5.6151e-02	8.7007e-01
91	PAN130136	-4.5402	-4.3876	-4.4904	5.5173e-02	8.7007e-01
92	PAN120048	-9.8124	-9.5836	-9.7097	5.5173e-02	8.7034e-01
93	PAN130048	-8.6944	-8.5418	-8.6181	5.1651e-02	8.7027e-01
94	PAN120224	-9.2636	-8.9585	-9.1204	6.3513e-02	8.7030e-01
95	PAN130224	-9.0040	-8.6988	-8.8311	6.3786e-02	8.7028e-01
96	PAN120312	-9.0040	-8.7751	-8.9012	7.3955e-02	8.7028e-01
97	PAN130312	-9.0069	-8.7780	-8.8683	7.0809e-02	8.7028e-01
98	PAB000136	21.0127	21.1500	21.1014	3.7850e-02	5.8239e-01
99	PAB100136	24.2179	24.3095	24.2637	3.3690e-02	5.8316e-01
100	PAB125136	24.8861	25.0234	24.9636	3.8757e-02	5.8335e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	20.8924	21.1366	21.0021	4.4885e-02	7.5184e-01
102	PRV000001	24.4677	24.5897	24.5773	3.7334e-02	7.5251e-01
103	PSR000001	25.2542	25.4983	25.3812	3.4877e-02	7.5268e-01
104	PFM000001	3.6322	3.9068	3.7555	7.6029e-02	5.0009e-01
105	PAN000136	-112.7680	-111.8525	-112.5532	2.6597e-01	4.9280e+00
106	PFM000002	3.6690	3.8032	3.7248	2.7697e-02	2.0022e-01
107	EMPTY	-0.0049	0.0049	0.0023	3.7429e-03	0.0000e+00
108	EMPTY	-10.0000	-0.4639	-8.0873	2.3067e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0005	1.7954e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2554	0.3305	0.0077	1.0955e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0661	9.8483e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0212	1.1319e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0047	1.1644e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0182	1.1276e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1181	1.1741e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.8697	1.3699e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.3546	1.2388e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2556	1.2209e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1445	2.6332e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0879	3.2497e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0638	3.4202e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0192	3.3665e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0124	2.6562e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	2.7388e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.5224e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0092	8.6187e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0007	9.2715e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0038	6.9053e-02	4.1000e+00
131	IHT000004	-0.0901	0.4958	0.0215	1.2607e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0327	1.0548e-01	4.1000e+00
133	IHT000006	-0.3193	0.2667	-0.0083	1.1219e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0009	7.8092e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0264	1.0204e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0122	8.7680e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0309	1.1219e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0260	9.0949e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0173	1.1348e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0057	1.0806e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0517	1.1219e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0005	6.8582e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0278	1.0625e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0400	2.8208e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0128	1.1348e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1965	1.0731e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0304	1.1419e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0301	9.2540e-02	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0286	7.9532e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0814	9.9792e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0249	7.5986e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0270	7.3601e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0286	7.9532e-02	4.1000e+00
155	IHT000028	-0.1803	0.4056	0.0150	1.3811e-01	4.1000e+00

Test: Jul31_15

sum2

Date: Tue Jul 31 11:40:50 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0015	8.8965e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0155	1.1248e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0309	1.1906e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0067	9.5812e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0183	8.9148e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0028	8.7680e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0096	1.1044e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0137	1.0594e-01	4.1000e+00

Test: Jul31_15 dif Date: Tue Jul 31 11:40:50 1990 Page: 1

Velocity 1 = 0.004000 (ft/sec)

Velocity 2 = 0.001300 (ft/sec)

Pressure Drop = 0.007100 (psi)

Tsat in = 0.141205 (deg F) Tsat out = 0.088501 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0278	0.0375
1	TRF000002	0.0031	0.0042
2	TFM000001	0.0237	0.0268
3	TIN000001	0.0378	0.0432
4	TRV000001	0.0522	0.0595
5	TSR000001	0.0182	0.0208
6	TAO020136	0.1022	0.1268
7	TAO050136	0.0120	0.0137
8	TAO070136	0.0290	0.0330
9	TAO080136	0.0073	0.0083
10	TAO090136	0.0097	0.0110
11	TAO100136	0.0117	0.0133
12	TAO105136	0.0170	0.0191
13	TAO110136	0.0014	0.0016
14	TAO115136	0.0267	0.0302
15	TAO120136	0.0114	0.0130
16	TAO125136	0.0121	0.0137
17	TAO130136	0.0203	0.0231
18	TAO120048	0.0479	0.0644
19	TAO130048	0.0124	0.0141
20	TAO120224	0.0339	0.0385
21	TAO130224	0.0326	0.0370
22	TAO120312	0.0095	0.0108
23	TAO130312	0.0246	0.0280
24	TRT020000	0.0113	0.0128
25	TRT070000	0.0150	0.0170
26	TRT100000	0.0389	0.0439
27	TRT120000	0.0527	0.0598
28	TRT125000	0.0413	0.0468
29	TRT130000	0.0211	0.0240
30	EMPTY	0.0698	0.1763
31	TAF050136	0.0092	0.0104
32	TAF070136	0.0029	0.0033
33	TAF080136	0.0311	0.0352
34	TAF090136	0.0666	0.0891
35	TAF100136	0.0203	0.0230
36	TAF105136	0.0591	0.0670
37	TAF110136	0.0120	0.0136
38	TAF115136	0.0817	0.0923
39	TAF120136	0.0160	0.0181
40	TAF125136	0.0722	0.0817
41	TAF130136	0.0051	0.0058
42	TAF120048	0.0607	0.0685
43	TAF130048	0.0605	0.0686
44	TAF120224	0.0262	0.0297
45	TAF130224	0.0444	0.0506

#	Name	Abs Diff	%Diff
46	EMPTY	0.0162	0.0425
47	EMPTY	0.0395	0.1006
48	TAI130048	0.0106	0.0120
49	TAI130136	0.0444	0.0506
50	TAI130224	0.0556	0.0625
51	TAI130312	0.0025	0.0028
52	TRR130000	0.0197	0.0227
53	TSI000001	0.0211	0.0263
54	TSI000002	0.0969	0.1271
55	TSO000001	0.0455	0.0600
56	TSO000002	0.0138	0.0181
57	TAF020136	0.0056	0.0064
58	TAF120312	0.0082	0.0093
59	TAF130312	0.0182	0.0208
60	EMPTY	0.0002	0.0390
61	EMPTY	0.0001	0.0190
62	EMPTY	0.0002	0.0372
63	EMPTY	0.0002	0.0361
64	EMPTY	0.0006	0.1692
65	EMPTY	0.0002	0.0532
66	EMPTY	0.0001	0.0255
67	EMPTY	0.0002	0.0487
68	EMPTY	0.0000	0.0000
69	EMPTY	0.0000	0.0000
70	EMPTY	0.0006	0.1301
71	EMPTY	0.0003	0.0620
72	EMPTY	0.0001	0.0201
73	EMPTY	0.0013	0.2502
74	EMPTY	0.0010	0.1864
75	EMPTY	0.0007	0.1266
76	EMPTY	0.0019	0.3337
77	EMPTY	0.0024	0.4067
78	EMPTY	0.0001	0.0164
79	EMPTY	0.0005	0.0787
80	PAN020136	0.0394	0.2832
81	PAN050136	0.0020	0.0075
82	PAN070136	0.0310	0.1722
83	PAN080136	0.0026	0.0289
84	PAN090136	0.0022	0.0245
85	PAN100136	0.0072	0.0769
86	PAN105136	0.0090	0.2016
87	PAN110136	0.0043	0.0992
88	PAN115136	0.0011	0.0258
89	PAN120136	0.0109	0.2465
90	PAN125136	0.0002	0.0046
91	PAN130136	0.0005	0.0111
92	PAN120048	0.0025	0.0257
93	PAN130048	0.0077	0.0893
94	PAN120224	0.0032	0.0351
95	PAN130224	0.0142	0.1605
96	PAN120312	0.0051	0.0573
97	PAN130312	0.0272	0.3058
98	PAB000136	0.0548	0.2604
99	PAB100136	0.0513	0.2119
100	PAB125136	0.0390	0.1565

Test: Jul31_15

dif

Date: Tue Jul 31 11:40:50 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0389	0.1856
102	PRV000001	0.0124	0.0504
103	PSR000001	0.0269	0.1061
104	PFM000001	0.0061	0.1627
105	PAN000136	0.1965	0.1743
106	PFM000002	0.0019	0.0510
107	EMPTY	0.0007	43.7500
108	EMPTY	0.1992	2.4039
109	EMPTY	0.0001	16.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0103	57.2222
113	VPW000002	0.0057	7.9387
114	VPW000003	0.0256	581.8182
115	VPW000004	0.0205	81.3492
116	VPW000005	0.0106	36.8056
117	VPW000006	0.0227	23.7946
118	IPW000001	0.0152	1.7788
119	IPW000002	0.1100	44.9714
120	IPW000003	0.2364	48.0488
121	IPW000004	0.0606	29.5466
122	IPW000005	0.0695	377.7174
123	IPW000006	0.0463	42.0527
124	EMPTY	0.0002	1.0309
125	EMPTY	0.0004	3.1250
126	EMPTY	0.0003	1.8750
127	EMPTY	0.0007	4.5455
128	IHT000001	0.0046	33.3333
129	IHT000002	0.0232	97.0711
130	IHT000003	0.0000	0.0000
131	IHT000004	0.0023	11.9792
132	IHT000005	0.0290	47.0016
133	IHT000006	0.0250	149.7006
134	IHT000007	0.0192	95.5224
135	IHT000008	0.0221	45.5670
136	IHT000009	0.0081	197.5610
137	IHT000010	0.0133	75.5682
138	IHT000011	0.0051	24.4019
139	IHT000012	0.0099	133.7838
140	IHT000013	0.0267	127.1429
141	IHT000014	0.0023	4.6559
142	IHT000015	0.0037	88.0952
143	IHT000016	0.0099	26.2600
144	IHT000017	0.0725	223.0769
145	IHT000018	0.0253	202.4000
146	IHT000019	0.0200	11.3315
147	IHT000020	0.0207	40.5088
148	IHT000021	0.0217	52.1635
149	IHT000022	0.0221	276.2500
150	IHT000023	0.0148	34.1014
151	IHT000024	0.0108	11.7137
152	IHT000025	0.0034	15.8140
153	IHT000026	0.0120	80.0000
154	IHT000027	0.0031	9.7792
155	IHT000028	0.0156	2599.9998

Test: Jul31_15 dif Date: Tue Jul 31 11:40:50 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0008	34.7826
157	IHT000030	0.0194	55.5874
158	IHT000031	0.0140	31.1804
159	IHT000032	0.0010	17.5439
160	IHT000033	0.0090	96.7742
161	IHT000034	0.0160	85.1064
162	IHT000035	0.0032	25.0000
163	IHT000036	0.0135	49.6324

Test: Jul31_16

sum1

Date: Tue Jul 31 11:44:17 1990

Page: 1

Velocity 1 = 7.0130 (ft/sec) (+/- 3.7542 %)
 Velocity 2 = 6.9511 (ft/sec) (+/- 2.0767 %)
 Pressure drop = -2.9528 (psi)
 Tsat in = 233.6485 (deg F) Tsat out = 240.2293 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 9540.2051 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1241.2188 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.9062	74.2277	1.9610e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0279	1.4862e-01	1.9000e+00
2	TFM000001	87.9979	88.9442	88.5333	2.2371e-01	1.9002e+00
3	TIN000001	87.2094	87.9473	87.6034	1.5015e-01	1.9002e+00
4	TRV000001	87.5737	88.3112	88.0380	1.9320e-01	1.9002e+00
5	TSR000001	87.3676	87.9998	87.7308	1.5047e-01	1.9002e+00
6	TAO020136	80.1592	81.5359	80.7840	2.7992e-01	1.9001e+00
7	TAO050136	87.7516	88.4848	88.0728	1.6882e-01	1.9002e+00
8	TAO070136	87.5631	88.8274	88.0835	2.0350e-01	1.9002e+00
9	TAO080136	87.6515	88.4927	87.9481	1.8799e-01	1.9002e+00
10	TAO090136	88.1198	89.0650	88.6305	1.8604e-01	1.9002e+00
11	TAO100136	87.4741	88.2117	87.9389	1.6332e-01	1.9002e+00
12	TAO105136	88.4019	89.4539	88.9254	2.3419e-01	1.9002e+00
13	TAO110136	87.9481	88.8901	88.3535	1.9728e-01	1.9002e+00
14	TAO115136	88.1183	88.8549	88.4868	2.1588e-01	1.9002e+00
15	TAO120136	87.5251	88.5775	87.9524	1.6390e-01	1.9002e+00
16	TAO125136	88.3712	89.0035	88.6931	1.5510e-01	1.9002e+00
17	TAO130136	87.5870	88.4260	87.9113	1.5992e-01	1.9002e+00
18	TAO120048	74.6633	75.6207	75.0950	1.8891e-01	1.9000e+00
19	TAO130048	87.4596	88.0917	87.7976	1.6754e-01	1.9002e+00
20	TAO120224	87.7790	88.5151	88.1179	1.8308e-01	1.9002e+00
21	TAO130224	87.8348	88.4674	88.1435	1.7890e-01	1.9002e+00
22	TAO120312	87.7629	88.4994	88.1520	1.8683e-01	1.9002e+00
23	TAO130312	87.6328	88.2654	87.9757	1.8485e-01	1.9002e+00
24	TRT020000	88.0371	89.0900	88.5529	2.0975e-01	1.9002e+00
25	TRT070000	88.0251	88.7633	88.3819	1.7286e-01	1.9002e+00
26	TRT100000	88.1832	89.1296	88.6476	2.0007e-01	1.9002e+00
27	TRT120000	87.9900	88.7274	88.3541	1.7792e-01	1.9002e+00
28	TRT125000	87.8699	88.7108	88.3206	2.1709e-01	1.9002e+00
29	TRT130000	87.7927	88.6346	88.1607	2.0713e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5919	2.4719e-01	1.9011e+00
31	TAF050136	88.2364	88.8687	88.6040	1.9107e-01	1.9002e+00
32	TAF070136	88.4361	89.4853	88.9035	2.2992e-01	1.9002e+00
33	TAF080136	88.0914	89.0368	88.4801	1.8842e-01	1.9002e+00
34	TAF090136	74.2594	75.5338	74.8768	3.1096e-01	1.9000e+00
35	TAF100136	87.9502	88.7919	88.3524	1.9565e-01	1.9002e+00
36	TAF105136	87.7422	88.5823	88.2295	2.4639e-01	1.9002e+00
37	TAF110136	87.7756	88.6170	88.1140	1.8522e-01	1.9002e+00
38	TAF115136	88.1649	89.1112	88.6585	2.3330e-01	1.9002e+00
39	TAF120136	88.1001	88.8374	88.5100	1.6597e-01	1.9002e+00
40	TAF125136	87.9722	89.2287	88.5723	2.6655e-01	1.9002e+00
41	TAF130136	88.0733	88.8094	88.3608	1.7977e-01	1.9002e+00
42	TAF120048	88.2420	89.5070	88.7923	2.7141e-01	1.9002e+00
43	TAF130048	87.9383	88.9896	88.3441	1.9093e-01	1.9002e+00
44	TAF120224	88.1382	88.8755	88.4352	1.8332e-01	1.9002e+00
45	TAF130224	87.5638	88.3017	87.8779	1.9445e-01	1.9002e+00

AIM

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11 of 11

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	1.7844e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1970	9.6091e-02	1.9010e+00
48	TAI130048	87.9332	89.1930	88.6030	3.3519e-01	1.9002e+00
49	TAI130136	87.4414	88.2827	87.9468	1.8796e-01	1.9002e+00
50	TAI130224	88.5985	89.4402	88.9962	2.4620e-01	1.9002e+00
51	TAI130312	87.8598	88.7006	88.2362	2.0274e-01	1.9002e+00
52	TRR130000	86.2965	87.4523	86.8817	2.5716e-01	1.9002e+00
53	TSI000001	79.9715	80.7137	80.3674	1.6237e-01	1.9001e+00
54	TSI000002	75.7923	76.8503	76.3066	2.7616e-01	1.9000e+00
55	TSO000001	75.6132	76.5711	76.0369	1.7913e-01	1.9000e+00
56	TSO000002	75.8387	76.7953	76.2785	1.8571e-01	1.9000e+00
57	TAF020136	87.2145	88.1637	87.7568	1.8707e-01	1.9002e+00
58	TAF120312	87.5899	88.5353	88.0163	2.6093e-01	1.9002e+00
59	TAF130312	87.2927	88.2400	87.7198	1.8926e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5148	2.4484e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5288	2.4662e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5419	6.9053e-04	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5568	9.6655e-04	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3563	1.2041e-03	0.0000e+00
65	EMPTY	0.3760	0.3906	0.3764	2.1702e-03	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3943	2.1065e-03	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4139	2.1065e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4275	2.4484e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4448	1.4797e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4634	1.4797e-03	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4842	1.8082e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4995	2.2603e-03	0.0000e+00
73	EMPTY	0.5176	0.5273	0.5213	2.3261e-03	0.0000e+00
74	EMPTY	0.5322	0.5469	0.5372	1.5566e-03	0.0000e+00
75	EMPTY	0.5518	0.5615	0.5551	2.5034e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5706	1.7115e-03	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5905	1.1714e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6121	2.3675e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6357	1.9730e-03	0.0000e+00
80	PAN020136	-10.1235	-9.8183	-9.9846	7.8125e-02	8.7036e-01
81	PAN050136	-19.6349	-19.0245	-19.4060	1.4211e-01	1.6807e+00
82	PAN070136	-13.2690	-12.9638	-13.1362	7.1984e-02	8.7062e-01
83	PAN080136	-6.8311	-6.5259	-6.6511	9.4716e-02	8.7016e-01
84	PAN090136	-6.5802	-6.2750	-6.4306	6.7116e-02	8.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.1840	7.4816e-02	8.7019e-01
86	PAN105136	-3.4574	-3.1522	-3.2926	6.9550e-02	8.7004e-01
87	PAN110136	-3.1727	-2.9438	-3.0445	6.2497e-02	8.7003e-01
88	PAN115136	-3.1816	-2.8764	-3.0061	6.9362e-02	8.7003e-01
89	PAN120136	-3.2005	-2.8954	-3.0525	6.7908e-02	8.7003e-01
90	PAN125136	-3.2416	-2.9364	-3.0356	5.8185e-02	8.7003e-01
91	PAN130136	-3.3958	-3.2432	-3.3210	4.2184e-02	8.7004e-01
92	PAN120048	-7.4473	-7.1422	-7.3054	7.0651e-02	8.7019e-01
93	PAN130048	-6.2530	-6.0241	-6.1126	7.7621e-02	8.7013e-01
94	PAN120224	-7.1274	-6.8222	-7.0282	5.6107e-02	8.7018e-01
95	PAN130224	-6.4100	-6.1811	-6.2742	7.5966e-02	8.7014e-01
96	PAN120312	-6.5625	-6.2574	-6.4115	7.3097e-02	8.7015e-01
97	PAN130312	-6.4892	-6.2603	-6.3946	6.9891e-02	8.7015e-01
98	PAB000136	22.2487	22.3860	22.3118	3.8008e-02	5.8268e-01
99	PAB100136	24.5384	24.6757	24.6189	4.0902e-02	5.8326e-01
100	PAB125136	25.0234	25.1608	25.1031	4.5127e-02	5.8339e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	22.1131	22.2352	22.1400	5.1081e-02	7.5204e-01
102	PRV000001	24.3456	24.7118	24.5678	5.8828e-02	7.5251e-01
103	PSR000001	25.2542	25.3763	25.3665	3.3453e-02	7.5268e-01
104	PFM000001	7.2027	7.5689	7.4371	8.5084e-02	5.0035e-01
105	PAN000136	-82.0978	-81.1823	-81.7500	2.8595e-01	4.9242e+00
106	PFM000002	7.1256	7.4276	7.3048	7.3763e-02	2.0083e-01
107	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-2.5488	-8.0424	2.0631e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0021	2.4344e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.4507	0.3305	0.0610	1.2409e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0523	1.0595e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0152	1.0617e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	-0.0369	1.1049e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	1.0447e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1071	1.1545e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4641	1.0938e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.2446	1.0839e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3360	1.3923e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.3531e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.1648	3.2774e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0027	3.2733e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.2733e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0128	2.3941e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.6100e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0255	9.0412e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0161	7.9017e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0080	8.2864e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0192	1.0559e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0461	1.0992e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0128	9.8648e-02	4.1000e+00
134	IHT000007	-0.2104	0.3756	0.0123	1.1168e-01	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0251	1.0145e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0002	7.3716e-02	4.1000e+00
137	IHT000010	-0.2442	0.3418	0.0254	1.1084e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0287	9.2034e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0074	1.0617e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0328	1.0259e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0494	1.0507e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	6.8345e-02	4.1000e+00
143	IHT000016	-0.2592	0.1315	0.0377	1.0617e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0379	2.6237e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	0.0086	1.0992e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2195	1.1361e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0277	1.2124e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	0.0038	9.8648e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0161	8.8321e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.1118	1.0358e-01	4.1000e+00
152	IHT000025	-0.2442	0.3418	-0.0020	1.0106e-01	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0150	6.8345e-02	4.1000e+00
154	IHT000027	-0.0113	0.3793	0.0356	9.3043e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0307	1.0320e-01	4.1000e+00

Test: Jul31_16 sum1 Date: Tue Jul 31 11:44:17 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0251	1.0145e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0466	8.8233e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0566	1.1975e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0291	1.0358e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0367	1.0358e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0344	1.0320e-01	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0558	9.7377e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0428	9.8648e-02	4.1000e+00

Test: Jul31_16

sum2

Date: Tue Jul 31 11:44:17 1990

Page: 1

Velocity 1 = 6.9952 (ft/sec) (+/- 3.7698 %)
Velocity 2 = 6.9378 (ft/sec) (+/- 2.0795 %)
Pressure drop = -2.9569 (psi)
Tsat in = 233.5686 (deg F) Tsat out = 240.1277 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2781.8350 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2068.6436 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2269	1.9807e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.0678	1.3581e-01	1.9000e+00
2	TFM000001	88.2070	89.0472	88.6042	1.7958e-01	1.9002e+00
3	TIN000001	87.4199	88.0513	87.6929	1.3053e-01	1.9002e+00
4	TRV000001	87.2625	88.4142	87.9580	2.2887e-01	1.9002e+00
5	TSR000001	87.4712	87.9979	87.7489	1.3163e-01	1.9002e+00
6	TAO020136	80.1592	81.2182	80.8312	2.6344e-01	1.9001e+00
7	TAO050136	87.7516	88.4865	88.1114	1.4678e-01	1.9002e+00
8	TAO070136	87.7734	88.4061	88.1177	1.7707e-01	1.9002e+00
9	TAO080136	87.5465	88.2818	87.9520	1.7532e-01	1.9002e+00
10	TAO090136	88.2253	88.9601	88.6195	1.9343e-01	1.9002e+00
11	TAO100136	87.5796	88.3153	87.9356	1.6596e-01	1.9002e+00
12	TAO105136	88.5067	89.3478	88.9554	1.9403e-01	1.9002e+00
13	TAO110136	87.9481	88.6825	88.3619	1.7812e-01	1.9002e+00
14	TAO115136	88.1183	89.0650	88.5243	2.3015e-01	1.9002e+00
15	TAO120136	87.6301	88.3666	87.9847	1.3873e-01	1.9002e+00
16	TAO125136	88.3718	89.1069	88.7360	1.5772e-01	1.9002e+00
17	TAO130136	87.4815	88.3199	87.9498	1.6532e-01	1.9002e+00
18	TAO120048	74.7694	75.5135	75.1730	1.7075e-01	1.9000e+00
19	TAO130048	87.3540	88.1948	87.8324	1.6059e-01	1.9002e+00
20	TAO120224	87.6740	88.4103	88.1441	1.6362e-01	1.9002e+00
21	TAO130224	87.7298	88.4642	88.1818	1.6453e-01	1.9002e+00
22	TAO120312	87.6573	88.4994	88.1964	1.6448e-01	1.9002e+00
23	TAO130312	87.5278	88.2638	88.0020	1.4408e-01	1.9002e+00
24	TRT020000	88.1419	88.9846	88.6064	1.9573e-01	1.9002e+00
25	TRT070000	88.0259	88.7636	88.4193	1.7190e-01	1.9002e+00
26	TRT100000	88.1832	89.1278	88.6784	2.0199e-01	1.9002e+00
27	TRT120000	87.9900	88.8309	88.3957	1.8070e-01	1.9002e+00
28	TRT125000	87.9735	88.9168	88.3831	1.8295e-01	1.9002e+00
29	TRT130000	87.8972	88.5286	88.1960	1.6378e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6525	2.1967e-01	1.9011e+00
31	TAF050136	88.2369	89.0756	88.6478	1.7507e-01	1.9002e+00
32	TAF070136	88.5416	89.3794	88.9280	1.8517e-01	1.9002e+00
33	TAF080136	87.9882	88.9308	88.4796	1.8778e-01	1.9002e+00
34	TAF090136	74.4708	75.4263	74.8787	2.5823e-01	1.9000e+00
35	TAF100136	87.9502	88.7919	88.4206	1.7198e-01	1.9002e+00
36	TAF105136	87.7416	88.8924	88.2756	2.7533e-01	1.9002e+00
37	TAF110136	87.8795	88.4060	88.1401	1.4234e-01	1.9002e+00
38	TAF115136	88.1649	89.2144	88.7198	2.2133e-01	1.9002e+00
39	TAF120136	88.2051	88.9402	88.5184	1.7328e-01	1.9002e+00
40	TAF125136	88.0754	89.0179	88.6208	2.4108e-01	1.9002e+00
41	TAF130136	87.8628	88.8077	88.4009	1.6676e-01	1.9002e+00
42	TAF120048	88.1365	89.2962	88.8185	2.4930e-01	1.9002e+00
43	TAF130048	88.1479	88.7787	88.4016	1.7263e-01	1.9002e+00
44	TAF120224	87.9288	88.8739	88.4455	2.0863e-01	1.9002e+00
45	TAF130224	87.4588	88.1965	87.9144	1.4962e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1757	2.1127e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2589	1.1598e-01	1.9010e+00
48	TAI130048	87.9332	89.2979	88.6766	3.1549e-01	1.9002e+00
49	TAI130136	87.4414	88.4898	87.9465	2.2102e-01	1.9002e+00
50	TAI130224	88.4930	89.6499	89.0257	3.1206e-01	1.9002e+00
51	TAI130312	87.7542	88.7009	88.2568	1.9700e-01	1.9002e+00
52	TRR130000	86.1914	87.3450	86.9151	2.3769e-01	1.9002e+00
53	TSI000001	79.7608	80.7119	80.3583	1.8113e-01	1.9001e+00
54	TSI000002	75.8976	76.9563	76.5326	2.3961e-01	1.9000e+00
55	TSO000001	75.6135	76.4640	76.0324	2.0305e-01	1.9000e+00
56	TSO000002	75.7332	76.7942	76.2832	2.0403e-01	1.9000e+00
57	TAF020136	87.3201	88.1640	87.8066	1.8766e-01	1.9002e+00
58	TAF120312	87.4848	88.4305	88.0207	2.5279e-01	1.9002e+00
59	TAF130312	87.3977	88.0289	87.7542	1.6033e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5149	2.4538e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5298	2.4662e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5419	6.9754e-04	0.0000e+00
63	EMPTY	0.5518	0.5615	0.5570	1.6787e-03	0.0000e+00
64	EMPTY	0.3516	0.3711	0.3567	2.3179e-03	0.0000e+00
65	EMPTY	0.3760	0.3906	0.3769	2.5748e-03	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3945	1.9883e-03	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4147	1.1827e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4280	2.3483e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4447	1.3508e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4636	1.1827e-03	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4852	2.3783e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.5015	2.2287e-03	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5222	1.1827e-03	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5373	9.7615e-04	0.0000e+00
75	EMPTY	0.5518	0.5615	0.5563	1.5467e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5712	6.9754e-04	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5907	6.9754e-04	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6141	2.0584e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6367	2.4037e-03	0.0000e+00
80	PAN020136	-10.1235	-9.8946	-9.9849	6.1655e-02	8.7036e-01
81	PAN050136	-19.6349	-19.1771	-19.4761	1.3915e-01	1.6807e+00
82	PAN070136	-13.2690	-12.9638	-13.1444	8.1955e-02	8.7062e-01
83	PAN080136	-6.8311	-6.5259	-6.6723	9.3228e-02	8.7016e-01
84	PAN090136	-6.5802	-6.3513	-6.4478	6.7481e-02	8.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.1774	8.1501e-02	8.7019e-01
86	PAN105136	-3.3811	-3.0759	-3.2908	6.3591e-02	8.7004e-01
87	PAN110136	-3.1727	-2.8675	-3.0403	6.9255e-02	8.7003e-01
88	PAN115136	-3.1816	-2.8764	-3.0259	7.2978e-02	8.7003e-01
89	PAN120136	-3.2005	-2.8191	-3.0448	8.2347e-02	8.7003e-01
90	PAN125136	-3.2416	-2.9364	-3.0563	5.1651e-02	8.7003e-01
91	PAN130136	-3.4721	-3.2432	-3.3008	6.3318e-02	8.7004e-01
92	PAN120048	-7.4473	-7.1422	-7.3181	6.2690e-02	8.7019e-01
93	PAN130048	-6.2530	-5.9478	-6.1300	7.4389e-02	8.7013e-01
94	PAN120224	-7.1274	-6.8985	-7.0215	6.5735e-02	8.7018e-01
95	PAN130224	-6.4100	-6.1811	-6.2885	7.4555e-02	8.7014e-01
96	PAN120312	-6.5625	-6.2574	-6.4302	6.7481e-02	8.7015e-01
97	PAN130312	-6.4892	-6.3366	-6.4098	6.2214e-02	8.7015e-01
98	PAB000136	22.2029	22.3402	22.2795	3.4189e-02	5.8267e-01
99	PAB100136	24.4926	24.6299	24.5720	3.9396e-02	5.8324e-01
100	PAB125136	24.9777	25.1150	25.0580	3.7991e-02	5.8337e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.9911	22.1131	22.0284	5.6843e-02	7.5202e-01
102	PRV000001	24.4677	24.5897	24.5847	2.4404e-02	7.5251e-01
103	PSR000001	25.1321	25.3763	25.2816	5.7176e-02	7.5266e-01
104	PFM000001	7.2943	7.5689	7.3989	7.7053e-02	5.0034e-01
105	PAN000136	-82.0978	-81.6401	-81.8643	2.3121e-01	4.9243e+00
106	PFM000002	7.1256	7.3773	7.2763	6.0354e-02	2.0083e-01
107	EMPTY	-0.0049	0.0049	0.0043	1.8997e-03	0.0000e+00
108	EMPTY	-10.0000	-4.9219	-8.5429	1.6752e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0019	2.4037e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0515	1.0548e-01	8.1000e-01
113	VPW000002	-0.2329	0.5484	0.0421	1.3174e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0411	1.1658e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0008	9.5812e-02	8.1000e-01
116	VPW000005	-0.5484	0.2329	0.0416	1.3514e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0543	1.2041e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.5908	1.2932e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.5614	1.1647e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4148	1.0140e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1843	2.7536e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0281	2.8188e-01	2.0000e+00
123	IPW000006	-0.5540	0.4226	0.0838	2.8548e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	3.2155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8866e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0159	3.1163e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.6993e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0211	7.5986e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0007	8.3705e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0042	5.5804e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0414	1.0836e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0327	9.7656e-02	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0116	9.9303e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	-0.0031	6.1868e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0105	9.5812e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	4.8662e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0109	9.0949e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0180	8.7123e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0332	1.1146e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0143	9.5812e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0438	1.0594e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0035	6.2908e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0320	3.5463e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0048	1.1960e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2044	9.7656e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0304	1.1419e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0597	1.0315e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0261	9.3931e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0246	8.6187e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0535	6.7148e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0488	8.9148e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0031	7.3601e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0206	8.3122e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0150	1.1960e-01	4.1000e+00

Test: Jul31_16

sum2

Date: Tue Jul 31 11:44:17 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0225	9.2540e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0314	1.0268e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0508	1.2684e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0052	8.8965e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0143	8.7123e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0068	8.3705e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0096	8.6187e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0017	9.8648e-02	4.1000e+00

Test: Jul31_16 dif Date: Tue Jul 31 11:44:17 1990 Page: 1

Velocity 1 = 0.017800 (ft/sec)

Velocity 2 = 0.013300 (ft/sec)

Pressure Drop = 0.004100 (psi)

Tsat in = 0.079895 (deg F) Tsat out = 0.101593 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0008	0.0011
1	TRF000002	0.0399	0.0539
2	TFM000001	0.0709	0.0801
3	TIN000001	0.0895	0.1022
4	TRV000001	0.0800	0.0909
5	TSR000001	0.0181	0.0206
6	TAO020136	0.0472	0.0584
7	TAO050136	0.0386	0.0438
8	TAO070136	0.0342	0.0388
9	TAO080136	0.0039	0.0044
10	TAO090136	0.0110	0.0124
11	TAO100136	0.0033	0.0038
12	TAO105136	0.0300	0.0337
13	TAO110136	0.0084	0.0095
14	TAO115136	0.0375	0.0424
15	TAO120136	0.0323	0.0367
16	TAO125136	0.0429	0.0484
17	TAO130136	0.0385	0.0438
18	TAO120048	0.0780	0.1039
19	TAO130048	0.0348	0.0396
20	TAO120224	0.0262	0.0297
21	TAO130224	0.0383	0.0435
22	TAO120312	0.0444	0.0504
23	TAO130312	0.0263	0.0299
24	TRT020000	0.0535	0.0604
25	TRT070000	0.0374	0.0423
26	TRT100000	0.0308	0.0347
27	TRT120000	0.0416	0.0471
28	TRT125000	0.0625	0.0708
29	TRT130000	0.0353	0.0400
30	EMPTY	0.0606	0.1531
31	TAF050136	0.0438	0.0494
32	TAF070136	0.0245	0.0276
33	TAF080136	0.0005	0.0006
34	TAF090136	0.0019	0.0025
35	TAF100136	0.0682	0.0772
36	TAF105136	0.0461	0.0522
37	TAF110136	0.0261	0.0296
38	TAF115136	0.0613	0.0691
39	TAF120136	0.0084	0.0095
40	TAF125136	0.0485	0.0547
41	TAF130136	0.0401	0.0454
42	TAF120048	0.0262	0.0295
43	TAF130048	0.0575	0.0651
44	TAF120224	0.0103	0.0116
45	TAF130224	0.0365	0.0415

Test: Jul31_16 dif Date: Tue Jul 31 11:44:17 1990 Page: 2

#	Name	Abs Diff	%Diff
46	EMPTY	0.0311	0.0815
47	EMPTY	0.0619	0.1579
48	TAI130048	0.0736	0.0831
49	TAI130136	0.0003	0.0003
50	TAI130224	0.0295	0.0332
51	TAI130312	0.0206	0.0233
52	TRR130000	0.0334	0.0384
53	TSI000001	0.0091	0.0113
54	TSI000002	0.2260	0.2962
55	TSO000001	0.0045	0.0059
56	TSO000002	0.0047	0.0062
57	TAF020136	0.0498	0.0568
58	TAF120312	0.0044	0.0050
59	TAF130312	0.0344	0.0392
60	EMPTY	0.0001	0.0194
61	EMPTY	0.0010	0.1891
62	EMPTY	0.0000	0.0000
63	EMPTY	0.0002	0.0359
64	EMPTY	0.0004	0.1123
65	EMPTY	0.0005	0.1328
66	EMPTY	0.0002	0.0507
67	EMPTY	0.0008	0.1933
68	EMPTY	0.0005	0.1170
69	EMPTY	0.0001	0.0225
70	EMPTY	0.0002	0.0432
71	EMPTY	0.0010	0.2065
72	EMPTY	0.0020	0.4004
73	EMPTY	0.0009	0.1726
74	EMPTY	0.0001	0.0186
75	EMPTY	0.0012	0.2162
76	EMPTY	0.0006	0.1052
77	EMPTY	0.0002	0.0339
78	EMPTY	0.0020	0.3267
79	EMPTY	0.0010	0.1573
80	PAN020136	0.0003	0.0030
81	PAN050136	0.0701	0.3612
82	PAN070136	0.0082	0.0624
83	PAN080136	0.0212	0.3187
84	PAN090136	0.0172	0.2675
85	PAN100136	0.0066	0.0919
86	PAN105136	0.0018	0.0547
87	PAN110136	0.0042	0.1380
88	PAN115136	0.0198	0.6587
89	PAN120136	0.0077	0.2523
90	PAN125136	0.0207	0.6819
91	PAN130136	0.0202	0.6083
92	PAN120048	0.0127	0.1738
93	PAN130048	0.0174	0.2847
94	PAN120224	0.0067	0.0953
95	PAN130224	0.0143	0.2279
96	PAN120312	0.0187	0.2917
97	PAN130312	0.0152	0.2377
98	PAB000136	0.0323	0.1448
99	PAB100136	0.0469	0.1905
100	PAB125136	0.0451	0.1797

Test: Jul31_16

dif

Date: Tue Jul 31 11:44:17 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.1116	0.5041
102	PRV000001	0.0169	0.0688
103	PSR000001	0.0849	0.3347
104	PFM000001	0.0382	0.5136
105	PAN000136	0.1143	0.1398
106	PFM000002	0.0285	0.3902
107	EMPTY	0.0002	4.4444
108	EMPTY	0.5005	6.2233
109	EMPTY	0.0002	9.5238
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0095	15.5738
113	VPW000002	0.0102	19.5029
114	VPW000003	0.0259	170.3947
115	VPW000004	0.0361	97.8320
116	VPW000005	0.0314	307.8431
117	VPW000006	0.0528	49.2997
118	IPW000001	0.1267	27.3001
119	IPW000002	0.8060	329.5176
120	IPW000003	0.0788	23.4524
121	IPW000004	0.0281	17.9898
122	IPW000005	0.1367	82.9490
123	IPW000006	0.0811	3003.7036
124	EMPTY	0.0010	4.9505
125	EMPTY	0.0003	2.3438
126	EMPTY	0.0007	4.2169
127	EMPTY	0.0004	2.5807
128	IHT000001	0.0044	17.2549
129	IHT000002	0.0154	95.6522
130	IHT000003	0.0038	47.5000
131	IHT000004	0.0222	115.6250
132	IHT000005	0.0134	29.0673
133	IHT000006	0.0012	9.3750
134	IHT000007	0.0154	125.2033
135	IHT000008	0.0146	58.1673
136	IHT000009	0.0079	3950.0000
137	IHT000010	0.0145	57.0866
138	IHT000011	0.0107	37.2822
139	IHT000012	0.0258	348.6487
140	IHT000013	0.0185	56.4024
141	IHT000014	0.0056	11.3360
142	IHT000015	0.0040	53.3333
143	IHT000016	0.0178	47.2149
144	IHT000017	0.0059	15.5673
145	IHT000018	0.0134	155.8139
146	IHT000019	0.0151	6.8793
147	IHT000020	0.0027	9.7473
148	IHT000021	0.0220	58.3554
149	IHT000022	0.0299	786.8420
150	IHT000023	0.0085	52.7950
151	IHT000024	0.0583	52.1467
152	IHT000025	0.0468	2339.9998
153	IHT000026	0.0119	79.3333
154	IHT000027	0.0150	42.1348
155	IHT000028	0.0157	51.1401

Test: Jul31_16 dif Date: Tue Jul 31 11:44:17 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0026	10.3586
157	IHT000030	0.0152	32.6180
158	IHT000031	0.0058	10.2474
159	IHT000032	0.0343	117.8694
160	IHT000033	0.0224	61.0354
161	IHT000034	0.0276	80.2326
162	IHT000035	0.0462	82.7957
163	IHT000036	0.0411	96.0280

Velocity 1 = 12.9891 (ft/sec) (+/- 1.9317 %)
Velocity 2 = 12.2585 (ft/sec) (+/- 1.7169 %)
Pressure drop = 1.9513 (psi)
Tsats in = 246.2709 (deg F) Tsats out = 242.1307 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 218709.6250 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3877.2693 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2149	1.5280e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.0619	1.2698e-01	1.9000e+00
2	TFM000001	88.2077	89.0472	88.6235	1.9318e-01	1.9002e+00
3	TIN000001	87.3150	88.0513	87.7148	1.5181e-01	1.9002e+00
4	TRV000001	87.7842	88.5182	88.1948	1.7013e-01	1.9002e+00
5	TSR000001	87.4712	88.2069	87.9461	1.3444e-01	1.9002e+00
6	TAO020136	80.4766	81.3238	80.9003	2.3230e-01	1.9001e+00
7	TAO050136	87.6461	88.5903	88.1459	1.7784e-01	1.9002e+00
8	TAO070136	87.6684	88.6165	88.1698	1.8129e-01	1.9002e+00
9	TAO080136	87.7570	88.4904	88.1255	1.4559e-01	1.9002e+00
10	TAO090136	88.3293	89.2743	88.6870	2.0974e-01	1.9002e+00
11	TAO100136	87.6838	88.2103	87.9788	1.4244e-01	1.9002e+00
12	TAO105136	88.7171	89.4532	89.0746	2.0151e-01	1.9002e+00
13	TAO110136	87.9481	88.8904	88.4472	1.7738e-01	1.9002e+00
14	TAO115136	87.9081	89.1697	88.5897	2.3770e-01	1.9002e+00
15	TAO120136	87.8401	88.3666	88.1098	1.3957e-01	1.9002e+00
16	TAO125136	88.4758	89.2108	88.8543	1.6826e-01	1.9002e+00
17	TAO130136	87.6884	88.4218	88.0831	1.4856e-01	1.9002e+00
18	TAO120048	74.8754	75.6195	75.2286	1.3822e-01	1.9000e+00
19	TAO130048	87.3540	88.1935	87.8960	1.3326e-01	1.9002e+00
20	TAO120224	87.8839	88.6200	88.2459	1.6053e-01	1.9002e+00
21	TAO130224	87.8354	88.6721	88.2496	1.7171e-01	1.9002e+00
22	TAO120312	87.6576	88.6043	88.2382	1.8919e-01	1.9002e+00
23	TAO130312	87.7372	88.3676	88.0783	1.2490e-01	1.9002e+00
24	TRT020000	88.3525	89.1944	88.6729	2.0282e-01	1.9002e+00
25	TRT070000	88.1315	88.7636	88.4685	1.5653e-01	1.9002e+00
26	TRT100000	88.3924	89.1278	88.7207	2.0039e-01	1.9002e+00
27	TRT120000	87.9900	88.7260	88.4568	1.5329e-01	1.9002e+00
28	TRT125000	88.0790	88.8113	88.4395	1.8669e-01	1.9002e+00
29	TRT130000	87.8982	88.6330	88.2969	1.6154e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6699	2.0760e-01	1.9011e+00
31	TAF050136	88.3419	89.0756	88.6855	1.4976e-01	1.9002e+00
32	TAF070136	88.5398	89.4829	89.0224	2.1745e-01	1.9002e+00
33	TAF080136	88.2996	88.8259	88.5780	1.5071e-01	1.9002e+00
34	TAF090136	74.3647	75.6380	75.1501	2.6929e-01	1.9000e+00
35	TAF100136	88.1607	88.8973	88.4764	1.7266e-01	1.9002e+00
36	TAF105136	87.8472	88.7875	88.3565	2.3978e-01	1.9002e+00
37	TAF110136	87.8795	88.8222	88.2164	1.6536e-01	1.9002e+00
38	TAF115136	88.3741	89.1095	88.7945	1.9055e-01	1.9002e+00
39	TAF120136	88.3091	88.9392	88.6207	1.3740e-01	1.9002e+00
40	TAF125136	88.0777	89.2259	88.6702	2.7477e-01	1.9002e+00
41	TAF130136	88.0733	88.8077	88.4675	1.5519e-01	1.9002e+00
42	TAF120048	88.3477	89.2962	88.8830	2.1503e-01	1.9002e+00
43	TAF130048	88.0429	88.8827	88.4551	1.8345e-01	1.9002e+00
44	TAF120224	88.1382	89.0832	88.5755	2.0361e-01	1.9002e+00
45	TAF130224	87.5641	88.3017	87.9896	1.7152e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.1367e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2475	1.1514e-01	1.9010e+00
48	TAI130048	88.1431	89.2979	88.7435	3.2500e-01	1.9002e+00
49	TAI130136	87.5451	88.4893	88.0242	1.9772e-01	1.9002e+00
50	TAI130224	88.5985	89.6498	89.0276	2.5564e-01	1.9002e+00
51	TAI130312	87.8594	88.8060	88.3014	2.1239e-01	1.9002e+00
52	TRR130000	86.5061	87.4505	86.9718	2.3014e-01	1.9002e+00
53	TSI000001	79.9715	80.7119	80.2726	1.6712e-01	1.9001e+00
54	TSI000002	75.7923	76.9557	76.4650	2.6818e-01	1.9000e+00
55	TSO000001	75.8261	76.7836	76.2986	2.1075e-01	1.9000e+00
56	TSO000002	76.1578	77.0061	76.5096	1.7727e-01	1.9000e+00
57	TAF020136	87.4252	88.2698	87.8307	1.8387e-01	1.9002e+00
58	TAF120312	87.5899	88.5353	88.1233	2.5435e-01	1.9002e+00
59	TAF130312	87.5023	88.2379	87.7722	1.6040e-01	1.9002e+00
60	EMPTY	0.5127	0.5273	0.5178	1.9631e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5319	1.5314e-03	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5429	1.8950e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5589	2.4583e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3595	2.3941e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3812	1.1714e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3979	2.4642e-03	0.0000e+00
67	EMPTY	0.4102	0.4199	0.4172	2.6396e-03	0.0000e+00
68	EMPTY	0.4248	0.4395	0.4313	2.6908e-03	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4499	1.7115e-03	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4892	1.8950e-03	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5036	1.7115e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5250	2.4642e-03	0.0000e+00
74	EMPTY	0.5322	0.5420	0.5417	1.5314e-03	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5592	2.4642e-03	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5751	2.0432e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5949	1.8082e-03	0.0000e+00
78	EMPTY	0.6152	0.6250	0.6164	2.3261e-03	0.0000e+00
79	EMPTY	0.6396	0.6445	0.6397	6.9053e-04	0.0000e+00
80	PAN020136	7.0427	8.3397	7.5660	3.0244e-01	8.7021e-01
81	PAN050136	11.7982	13.1715	12.7168	2.9325e-01	1.6803e+00
82	PAN070136	8.1696	8.9326	8.4931	1.8724e-01	8.7026e-01
83	PAN080136	3.9263	4.2315	4.0926	7.6589e-02	8.7006e-01
84	PAN090136	4.5587	5.0165	4.8258	1.1764e-01	8.7008e-01
85	PAN100136	1.4952	2.0293	1.7684	1.1646e-01	8.7001e-01
86	PAN105136	1.8069	2.1121	1.9351	6.9686e-02	8.7001e-01
87	PAN110136	2.1679	2.7020	2.4136	1.0931e-01	8.7002e-01
88	PAN115136	2.3879	2.8457	2.5863	9.1189e-02	8.7002e-01
89	PAN120136	2.5215	2.8267	2.7336	7.9032e-02	8.7003e-01
90	PAN125136	2.7856	3.0145	2.9153	7.2706e-02	8.7003e-01
91	PAN130136	1.7159	2.0211	1.8288	7.5888e-02	8.7001e-01
92	PAN120048	2.7761	3.1575	2.9454	1.0141e-01	8.7003e-01
93	PAN130048	5.0385	5.4963	5.2246	1.1856e-01	8.7010e-01
94	PAN120224	2.1042	2.6382	2.3651	1.1748e-01	8.7002e-01
95	PAN130224	4.4238	4.8815	4.6893	1.2062e-01	8.7008e-01
96	PAN120312	4.1949	4.5764	4.3429	8.9093e-02	8.7007e-01
97	PAN130312	4.7260	5.1838	4.9030	1.0041e-01	8.7009e-01
98	PAB000136	27.7418	28.0623	27.9075	8.3177e-02	5.8418e-01
99	PAB100136	26.4152	26.5983	26.5068	4.5307e-02	5.8377e-01
100	PAB125136	25.8932	26.0305	25.9591	4.4507e-02	5.8362e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.6063	27.9725	27.7943	1.0809e-01	7.5321e-01
102	PRV000001	24.3456	24.4677	24.4506	4.2787e-02	7.5249e-01
103	PSR000001	25.3763	25.6204	25.4983	2.4662e-02	7.5270e-01
104	PFM000001	25.5133	26.0626	25.8282	1.3486e-01	5.0415e-01
105	PAN000136	50.6536	56.6046	54.0227	1.4877e+00	4.9219e+00
106	PFM000002	21.8079	23.6369	22.9848	4.6903e-01	2.0809e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-1.3867	-7.9020	2.8567e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.2554	0.1352	-0.0132	1.0106e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0445	9.7377e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	-0.0083	1.2478e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0135	1.1161e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0249	1.1464e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0954	9.8648e-02	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3079	9.8608e-01	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.3617	1.4043e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4920	9.1633e-01	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2441	2.4164e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	-0.0305	3.5068e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0417	3.7291e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.6124e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.4741e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.9280e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.6433e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0138	9.1354e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0035	5.5243e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0080	7.2866e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0114	1.0617e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0050	9.3461e-02	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0162	7.2330e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0212	9.2034e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0158	7.1136e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0019	8.6541e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0092	9.0756e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0035	1.0595e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0406	9.6655e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0260	1.1306e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	5.5804e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0222	2.9319e-01	4.1000e+00
145	IHT000018	-0.1164	0.0789	-0.0188	9.8648e-02	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2117	9.4125e-02	4.1000e+00
147	IHT000020	-0.3005	0.2855	0.0316	1.0625e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0260	9.8332e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0119	1.0507e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0356	9.3043e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.1001	1.0014e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0449	6.2265e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0161	6.8459e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0346	1.1334e-01	4.1000e+00

Test: Jul31_17

sum1

Date: Tue Jul 31 11:47:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0173	9.8648e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0231	8.6810e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0605	1.1272e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0330	1.1161e-01	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0484	1.1942e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0227	1.0052e-01	4.1000e+00
162	IHT000035	-0.0263	0.3643	0.0714	1.2001e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0428	1.1334e-01	4.1000e+00

Velocity 1 = 12.9972 (ft/sec) (+/- 1.9311 %)
 Velocity 2 = 12.2339 (ft/sec) (+/- 1.7173 %)
 Pressure drop = 1.9656 (psi)
 Tsat in = 246.2509 (deg F) Tsat out = 242.0865 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 224168.3594 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 27612.2734 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0527	74.4796	74.2574	1.5064e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0244	1.4162e-01	1.9000e+00
2	TFM000001	88.3125	89.0472	88.6278	1.7928e-01	1.9002e+00
3	TIN000001	87.4206	88.1568	87.7595	1.4767e-01	1.9002e+00
4	TRV000001	87.6792	88.6216	88.1819	1.9708e-01	1.9002e+00
5	TSR000001	87.5768	88.3104	87.9644	1.5768e-01	1.9002e+00
6	TAO020136	80.2654	81.2182	80.8680	2.2886e-01	1.9001e+00
7	TAO050136	87.8567	88.5903	88.1860	1.4531e-01	1.9002e+00
8	TAO070136	87.8790	88.6165	88.2318	1.8441e-01	1.9002e+00
9	TAO080136	87.8608	88.4904	88.1289	1.6715e-01	1.9002e+00
10	TAO090136	88.2253	89.0650	88.7072	1.6573e-01	1.9002e+00
11	TAO100136	87.5796	88.4199	88.0062	1.6671e-01	1.9002e+00
12	TAO105136	88.8224	89.3483	89.0820	1.6493e-01	1.9002e+00
13	TAO110136	88.0536	88.8904	88.4786	1.7129e-01	1.9002e+00
14	TAO115136	88.0136	89.5898	88.5436	2.6621e-01	1.9002e+00
15	TAO120136	87.7356	88.3666	88.1154	1.4682e-01	1.9002e+00
16	TAO125136	88.5812	89.1059	88.8279	1.3814e-01	1.9002e+00
17	TAO130136	87.7940	88.3163	88.0532	1.3339e-01	1.9002e+00
18	TAO120048	74.9821	75.5134	75.2402	1.4708e-01	1.9000e+00
19	TAO130048	87.6688	88.0898	87.9242	1.2132e-01	1.9002e+00
20	TAO120224	87.9894	88.5146	88.2277	1.3009e-01	1.9002e+00
21	TAO130224	87.9404	88.4642	88.2645	1.3225e-01	1.9002e+00
22	TAO120312	87.9732	88.6043	88.2887	1.5777e-01	1.9002e+00
23	TAO130312	87.6334	88.5769	88.0939	1.6438e-01	1.9002e+00
24	TRT020000	88.1426	89.1949	88.7160	2.3835e-01	1.9002e+00
25	TRT070000	88.1315	88.7636	88.5121	1.3741e-01	1.9002e+00
26	TRT100000	88.3937	89.0229	88.7702	1.8138e-01	1.9002e+00
27	TRT120000	88.2005	88.8306	88.4749	1.5581e-01	1.9002e+00
28	TRT125000	88.0790	88.9168	88.4788	1.7314e-01	1.9002e+00
29	TRT130000	87.8982	88.6330	88.3008	1.6784e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6759	2.2078e-01	1.9011e+00
31	TAF050136	88.3419	89.0756	88.7310	1.6847e-01	1.9002e+00
32	TAF070136	88.4367	89.3781	88.9727	1.9291e-01	1.9002e+00
33	TAF080136	88.1969	88.8259	88.5582	1.6968e-01	1.9002e+00
34	TAF090136	74.4714	75.6375	75.1186	2.8553e-01	1.9000e+00
35	TAF100136	88.0557	88.8973	88.5044	1.9537e-01	1.9002e+00
36	TAF105136	87.7422	88.7875	88.3415	2.4174e-01	1.9002e+00
37	TAF110136	87.9851	88.6149	88.2404	1.4205e-01	1.9002e+00
38	TAF115136	88.4796	89.2138	88.8501	1.9500e-01	1.9002e+00
39	TAF120136	88.4145	88.8353	88.6442	1.1692e-01	1.9002e+00
40	TAF125136	88.3890	89.2259	88.7291	2.0250e-01	1.9002e+00
41	TAF130136	88.2826	88.8077	88.5056	1.3484e-01	1.9002e+00
42	TAF120048	88.4525	89.2970	88.9371	2.1741e-01	1.9002e+00
43	TAF130048	88.1484	88.8827	88.5021	1.6130e-01	1.9002e+00
44	TAF120224	88.1393	89.0832	88.5289	2.1191e-01	1.9002e+00
45	TAF130224	87.6696	88.3017	88.0414	1.6807e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1288	2.3465e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2402	1.1403e-01	1.9010e+00
48	TAI130048	88.0381	89.2979	88.8115	3.0347e-01	1.9002e+00
49	TAI130136	87.5464	88.4898	87.9871	1.8527e-01	1.9002e+00
50	TAI130224	88.4936	89.5451	89.0966	2.8205e-01	1.9002e+00
51	TAI130312	87.8603	88.7011	88.3362	1.8837e-01	1.9002e+00
52	TRR130000	86.4009	87.4505	86.9515	2.1884e-01	1.9002e+00
53	TSI000001	79.8671	80.7119	80.2917	1.9095e-01	1.9001e+00
54	TSI000002	76.1089	77.1674	76.6297	2.4962e-01	1.9000e+00
55	TSO000001	75.9330	76.6771	76.2953	1.7082e-01	1.9000e+00
56	TSO000002	76.1573	77.0061	76.5450	2.0941e-01	1.9000e+00
57	TAF020136	87.4251	88.2704	87.8261	1.8649e-01	1.9002e+00
58	TAF120312	87.6947	88.7449	88.1985	2.6843e-01	1.9002e+00
59	TAF130312	87.3983	88.1335	87.8077	1.9445e-01	1.9002e+00
60	EMPTY	0.5176	0.5225	0.5179	1.1827e-03	0.0000e+00
61	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5448	2.4414e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5602	2.1781e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3608	1.4934e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3817	1.8234e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3993	2.0584e-03	0.0000e+00
67	EMPTY	0.4150	0.4199	0.4187	2.1215e-03	0.0000e+00
68	EMPTY	0.4297	0.4346	0.4332	2.2287e-03	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4511	2.4037e-03	0.0000e+00
70	EMPTY	0.4639	0.4736	0.4681	1.9934e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4910	2.4538e-03	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5044	2.2737e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5267	1.6172e-03	0.0000e+00
74	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5610	1.4934e-03	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5758	1.3508e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5956	6.9754e-04	0.0000e+00
78	EMPTY	0.6152	0.6201	0.6186	2.2737e-03	0.0000e+00
79	EMPTY	0.6396	0.6445	0.6398	9.7615e-04	0.0000e+00
80	PAN020136	7.1190	8.4160	7.6016	3.0093e-01	8.7021e-01
81	PAN050136	12.4086	13.1715	12.7293	2.1857e-01	1.6803e+00
82	PAN070136	8.2459	8.9326	8.5418	1.5309e-01	8.7026e-01
83	PAN080136	3.9263	4.3078	4.1147	8.9601e-02	8.7006e-01
84	PAN090136	4.6350	5.0928	4.8561	9.8796e-02	8.7008e-01
85	PAN100136	1.6478	1.9530	1.8082	9.8796e-02	8.7001e-01
86	PAN105136	1.8069	2.1884	1.9688	8.4775e-02	8.7001e-01
87	PAN110136	2.2442	2.6257	2.4264	9.1892e-02	8.7002e-01
88	PAN115136	2.4642	2.7694	2.5997	8.7079e-02	8.7002e-01
89	PAN120136	2.5978	2.9030	2.7660	7.6262e-02	8.7003e-01
90	PAN125136	2.7856	3.0908	2.9211	7.9813e-02	8.7003e-01
91	PAN130136	1.7159	1.9448	1.8514	7.0107e-02	8.7001e-01
92	PAN120048	2.6998	3.2338	2.9567	1.0056e-01	8.7003e-01
93	PAN130048	4.8859	5.4963	5.2362	1.2740e-01	8.7010e-01
94	PAN120224	2.1805	2.6382	2.4078	9.5354e-02	8.7002e-01
95	PAN130224	4.5764	4.9578	4.7383	1.0520e-01	8.7008e-01
96	PAN120312	4.1186	4.5764	4.3615	1.0525e-01	8.7007e-01
97	PAN130312	4.7260	5.1838	4.9362	1.0849e-01	8.7009e-01
98	PAB000136	27.6961	28.0165	27.8978	7.2931e-02	5.8418e-01
99	PAB100136	26.3694	26.5525	26.4825	4.5874e-02	5.8377e-01
100	PAB125136	25.8474	26.0305	25.9390	4.0730e-02	5.8361e-01

Test: Jul31_17

sum2

Date: Tue Jul 31 11:47:28 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.6063	27.9725	27.7832	1.1160e-01	7.5321e-01
102	PRV000001	24.3456	24.4677	24.4627	2.4404e-02	7.5249e-01
103	PSR000001	25.3763	25.4983	25.4784	4.5586e-02	7.5270e-01
104	PFM000001	25.4217	26.2457	25.8608	1.7529e-01	5.0416e-01
105	PAN000136	51.1114	57.5201	54.4185	1.4604e+00	4.9219e+00
106	PFM000002	21.8918	23.7376	22.8917	4.7903e-01	2.0803e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	-0.7666	-7.7739	2.7609e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	1.1827e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.2554	0.1352	0.0077	1.0204e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0342	9.5132e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0053	1.2672e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	0.0152	1.2950e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0143	1.1810e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0862	1.0955e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4712	1.2395e+00	8.1000e+00
119	IPW000002	-2.6642	5.1409	-0.1554	1.3210e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6137	1.0997e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1644	2.3047e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0082	2.9830e-01	2.0000e+00
123	IPW000006	-0.5540	0.4226	-0.0358	3.2155e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0200	3.4877e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0124	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.3057e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.2281e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0211	9.4620e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0166	7.9736e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0082	7.3601e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0175	9.8153e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0327	1.1276e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0044	1.1146e-01	4.1000e+00
134	IHT000007	-0.2104	0.3756	0.0089	9.4620e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0225	1.0076e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	6.2908e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0189	1.0204e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0061	7.9532e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0053	1.2028e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0017	8.6187e-02	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0398	1.1348e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0164	7.5986e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0318	1.0640e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0679	2.9889e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0287	1.1319e-01	4.1000e+00
146	IHT000019	-0.3718	0.2141	-0.1805	1.2282e-01	4.1000e+00
147	IHT000020	-0.3005	0.2855	0.0344	1.1276e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0518	1.1219e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0142	9.6990e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0326	9.1482e-02	4.1000e+00
151	IHT000024	0.0376	0.2329	0.0934	8.9148e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0329	7.8092e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0230	8.8783e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0246	8.6187e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0169	1.0044e-01	4.1000e+00

Test: Jul31_17

sum2

Date: Tue Jul 31 11:47:28 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0015	8.8965e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	-0.0005	1.0517e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0309	1.2556e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0052	8.8965e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0143	8.7123e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0068	1.2229e-01	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0335	9.0949e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0022	9.8483e-02	4.1000e+00

Test: Jul31_17 dif Date: Tue Jul 31 11:47:28 1990 Page: 1

Velocity 1 = 0.008100 (ft/sec)

Velocity 2 = 0.024600 (ft/sec)

Pressure Drop = 0.014300 (psi)

Tsat in = 0.020004 (deg F) Tsat out = 0.044205 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0425	0.0573
1	TRF000002	0.0375	0.0506
2	TFM000001	0.0043	0.0049
3	TIN000001	0.0447	0.0510
4	TRV000001	0.0129	0.0146
5	TSR000001	0.0183	0.0208
6	TAO020136	0.0323	0.0399
7	TAO050136	0.0401	0.0455
8	TAO070136	0.0620	0.0703
9	TAO080136	0.0034	0.0039
10	TAO090136	0.0202	0.0228
11	TAO100136	0.0274	0.0311
12	TAO105136	0.0074	0.0083
13	TAO110136	0.0314	0.0355
14	TAO115136	0.0461	0.0520
15	TAO120136	0.0056	0.0064
16	TAO125136	0.0264	0.0297
17	TAO130136	0.0299	0.0339
18	TAO120048	0.0116	0.0154
19	TAO130048	0.0282	0.0321
20	TAO120224	0.0182	0.0206
21	TAO130224	0.0149	0.0169
22	TAO120312	0.0505	0.0572
23	TAO130312	0.0156	0.0177
24	TRT020000	0.0431	0.0486
25	TRT070000	0.0436	0.0493
26	TRT100000	0.0495	0.0558
27	TRT120000	0.0181	0.0205
28	TRT125000	0.0393	0.0444
29	TRT130000	0.0039	0.0044
30	EMPTY	0.0060	0.0151
31	TAF050136	0.0455	0.0513
32	TAF070136	0.0497	0.0558
33	TAF080136	0.0198	0.0224
34	TAF090136	0.0315	0.0419
35	TAF100136	0.0280	0.0316
36	TAF105136	0.0150	0.0170
37	TAF110136	0.0240	0.0272
38	TAF115136	0.0556	0.0626
39	TAF120136	0.0235	0.0265
40	TAF125136	0.0589	0.0664
41	TAF130136	0.0381	0.0431
42	TAF120048	0.0541	0.0609
43	TAF130048	0.0470	0.0531
44	TAF120224	0.0466	0.0526
45	TAF130224	0.0518	0.0589

#	Name	Abs Diff	%Diff
46	EMPTY	0.0026	0.0068
47	EMPTY	0.0073	0.0186
48	TAI130048	0.0680	0.0766
49	TAI130136	0.0371	0.0421
50	TAI130224	0.0690	0.0775
51	TAI130312	0.0348	0.0394
52	TRR130000	0.0203	0.0233
53	TSI000001	0.0191	0.0238
54	TSI000002	0.1647	0.2154
55	TSO000001	0.0033	0.0043
56	TSO000002	0.0354	0.0463
57	TAF020136	0.0046	0.0052
58	TAF120312	0.0752	0.0853
59	TAF130312	0.0355	0.0404
60	EMPTY	0.0001	0.0193
61	EMPTY	0.0003	0.0564
62	EMPTY	0.0019	0.3500
63	EMPTY	0.0013	0.2326
64	EMPTY	0.0013	0.3616
65	EMPTY	0.0005	0.1312
66	EMPTY	0.0014	0.3519
67	EMPTY	0.0015	0.3595
68	EMPTY	0.0019	0.4405
69	EMPTY	0.0012	0.2667
70	EMPTY	0.0019	0.4076
71	EMPTY	0.0018	0.3679
72	EMPTY	0.0008	0.1589
73	EMPTY	0.0017	0.3238
74	EMPTY	0.0003	0.0554
75	EMPTY	0.0018	0.3219
76	EMPTY	0.0007	0.1217
77	EMPTY	0.0007	0.1177
78	EMPTY	0.0022	0.3569
79	EMPTY	0.0001	0.0156
80	PAN020136	0.0356	0.4705
81	PAN050136	0.0125	0.0983
82	PAN070136	0.0487	0.5734
83	PAN080136	0.0221	0.5400
84	PAN090136	0.0303	0.6279
85	PAN100136	0.0398	2.2506
86	PAN105136	0.0337	1.7415
87	PAN110136	0.0128	0.5303
88	PAN115136	0.0134	0.5181
89	PAN120136	0.0324	1.1853
90	PAN125136	0.0058	0.1990
91	PAN130136	0.0226	1.2358
92	PAN120048	0.0113	0.3837
93	PAN130048	0.0116	0.2220
94	PAN120224	0.0427	1.8054
95	PAN130224	0.0490	1.0449
96	PAN120312	0.0186	0.4283
97	PAN130312	0.0332	0.6771
98	PAB000136	0.0097	0.0348
99	PAB100136	0.0243	0.0917
100	PAB125136	0.0201	0.0774

Test: Jul31_17

dif

Date: Tue Jul 31 11:47:28 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0111	0.0399
102	PRV000001	0.0121	0.0495
103	PSR000001	0.0199	0.0780
104	PFM000001	0.0326	0.1262
105	PAN000136	0.3958	0.7327
106	PFM000002	0.0931	0.4050
107	EMPTY	0.0002	4.1667
108	EMPTY	0.1281	1.6211
109	EMPTY	0.0001	2.1277
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0209	158.3333
113	VPW000002	0.0103	23.1461
114	VPW000003	0.0136	163.8554
115	VPW000004	0.0287	212.5926
116	VPW000005	0.0106	42.5703
117	VPW000006	0.0092	9.6436
118	IPW000001	0.1633	53.0367
119	IPW000002	0.2063	57.0362
120	IPW000003	0.1217	24.7358
121	IPW000004	0.0797	32.6506
122	IPW000005	0.0387	126.8852
123	IPW000006	0.0775	185.8513
124	EMPTY	0.0002	1.0101
125	EMPTY	0.0012	8.8235
126	EMPTY	0.0001	0.6289
127	EMPTY	0.0005	3.2895
128	IHT000001	0.0073	52.8986
129	IHT000002	0.0201	574.2857
130	IHT000003	0.0002	2.5000
131	IHT000004	0.0061	53.5088
132	IHT000005	0.0139	73.9362
133	IHT000006	0.0094	188.0000
134	IHT000007	0.0073	45.0617
135	IHT000008	0.0013	6.1321
136	IHT000009	0.0235	148.7342
137	IHT000010	0.0170	894.7368
138	IHT000011	0.0031	33.6957
139	IHT000012	0.0018	51.4286
140	IHT000013	0.0423	104.1872
141	IHT000014	0.0138	53.0769
142	IHT000015	0.0239	318.6667
143	IHT000016	0.0058	22.3077
144	IHT000017	0.0457	205.8559
145	IHT000018	0.0099	52.6596
146	IHT000019	0.0312	14.7378
147	IHT000020	0.0028	8.8608
148	IHT000021	0.0258	99.2308
149	IHT000022	0.0023	19.3277
150	IHT000023	0.0030	8.4270
151	IHT000024	0.0067	6.6933
152	IHT000025	0.0120	26.7261
153	IHT000026	0.0041	21.6931
154	IHT000027	0.0085	52.7950
155	IHT000028	0.0515	148.8439

Test: Jul31_17 dif Date: Tue Jul 31 11:47:28 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0188	108.6705
157	IHT000030	0.0236	102.1645
158	IHT000031	0.0296	48.9256
159	IHT000032	0.0382	115.7576
160	IHT000033	0.0341	70.4545
161	IHT000034	0.0159	70.0441
162	IHT000035	0.0379	53.0812
163	IHT000036	0.0450	105.1402

Velocity 1 = 24.9643 (ft/sec) (+/- 1.6918 %)
Velocity 2 = 13.4277 (ft/sec) (+/- 1.7032 %)
Pressure drop = 18.7814 (psi)
Tsat in = 276.5657 (deg F) Tsat out = 247.4543 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4364.3032 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4813.7607 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2320	1.6898e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0746	1.1423e-01	1.9000e+00
2	TFM000001	88.6265	89.2568	88.9569	1.4537e-01	1.9002e+00
3	TIN000001	87.6302	88.3671	88.0198	1.2979e-01	1.9002e+00
4	TRV000001	88.3057	89.1448	88.7068	2.0795e-01	1.9002e+00
5	TSR000001	87.7853	88.4159	88.1824	1.4119e-01	1.9002e+00
6	TAO020136	80.4765	81.5353	80.9405	2.4744e-01	1.9001e+00
7	TAO050136	88.0639	88.9024	88.5449	1.6820e-01	1.9002e+00
8	TAO070136	88.0898	88.9324	88.5133	1.9904e-01	1.9002e+00
9	TAO080136	87.9640	88.8022	88.4491	1.7697e-01	1.9002e+00
10	TAO090136	88.6437	89.3788	89.0619	2.0037e-01	1.9002e+00
11	TAO100136	87.9985	88.6295	88.3750	1.5752e-01	1.9002e+00
12	TAO105136	88.9272	89.8733	89.4046	2.2295e-01	1.9003e+00
13	TAO110136	88.3642	89.0984	88.8237	1.6634e-01	1.9002e+00
14	TAO115136	88.4335	89.5898	88.9743	2.6093e-01	1.9002e+00
15	TAO120136	88.0500	88.7862	88.4310	1.4078e-01	1.9002e+00
16	TAO125136	88.6852	89.4207	89.2125	1.4310e-01	1.9002e+00
17	TAO130136	88.0003	88.6286	88.4123	1.4544e-01	1.9002e+00
18	TAO120048	74.9815	75.6195	75.3113	1.5950e-01	1.9000e+00
19	TAO130048	87.9816	88.6122	88.2704	1.5840e-01	1.9002e+00
20	TAO120224	88.3034	88.9345	88.5920	1.4055e-01	1.9002e+00
21	TAO130224	88.2507	88.8798	88.6343	1.6182e-01	1.9002e+00
22	TAO120312	88.1829	88.9197	88.6481	1.7914e-01	1.9002e+00
23	TAO130312	88.1560	88.6823	88.4907	1.2143e-01	1.9002e+00
24	TRT020000	88.5632	89.4053	89.0076	1.9750e-01	1.9002e+00
25	TRT070000	88.4485	89.1859	88.8254	1.4920e-01	1.9002e+00
26	TRT100000	88.7066	89.3369	89.0952	1.3929e-01	1.9002e+00
27	TRT120000	88.5142	89.1449	88.8193	1.1080e-01	1.9002e+00
28	TRT125000	88.3905	89.1252	88.8336	1.6158e-01	1.9002e+00
29	TRT130000	88.3161	89.0517	88.6885	1.5623e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.4225e-01	1.9011e+00
31	TAF050136	88.6544	89.4933	89.0596	1.8095e-01	1.9002e+00
32	TAF070136	88.6447	89.5865	89.3165	2.3051e-01	1.9003e+00
33	TAF080136	88.5078	89.2397	88.9465	1.6464e-01	1.9002e+00
34	TAF090136	74.7885	75.7440	75.3048	2.7344e-01	1.9000e+00
35	TAF100136	88.4760	89.2124	88.8277	1.6544e-01	1.9002e+00
36	TAF105136	88.1580	89.0987	88.7125	2.3949e-01	1.9002e+00
37	TAF110136	88.2974	88.9271	88.6029	1.3928e-01	1.9002e+00
38	TAF115136	88.5834	89.5277	89.1899	1.7742e-01	1.9002e+00
39	TAF120136	88.6229	89.2529	89.0322	1.4265e-01	1.9002e+00
40	TAF125136	88.4940	89.6417	89.0011	2.6869e-01	1.9002e+00
41	TAF130136	88.4919	89.2260	88.8379	1.7122e-01	1.9002e+00
42	TAF120048	88.8743	90.0353	89.2777	2.1806e-01	1.9003e+00
43	TAF130048	88.2524	89.1974	88.8259	1.8257e-01	1.9002e+00
44	TAF120224	88.4526	89.2924	88.9419	2.1462e-01	1.9002e+00
45	TAF130224	87.7749	88.8280	88.3837	1.9539e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	2.0359e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2842	1.2274e-01	1.9010e+00
48	TAI130048	88.4578	89.7165	89.0980	2.9149e-01	1.9002e+00
49	TAI130136	87.9648	88.8030	88.3777	2.0021e-01	1.9002e+00
50	TAI130224	88.8088	89.9654	89.4334	3.0879e-01	1.9003e+00
51	TAI130312	88.2797	89.1211	88.6900	2.1993e-01	1.9002e+00
52	TRR130000	86.9237	87.7641	87.3048	2.0962e-01	1.9002e+00
53	TSI000001	79.9715	80.7119	80.3886	1.6168e-01	1.9001e+00
54	TSI000002	76.0024	76.9563	76.5348	2.4112e-01	1.9000e+00
55	TSO000001	76.0390	76.7836	76.4327	2.0974e-01	1.9000e+00
56	TSO000002	76.2627	77.2179	76.7406	2.1132e-01	1.9000e+00
57	TAF020136	87.8480	88.4811	88.1540	1.6132e-01	1.9002e+00
58	TAF120312	87.7990	88.9546	88.4736	2.8848e-01	1.9002e+00
59	TAF130312	87.8169	88.5509	88.1809	1.5902e-01	1.9002e+00
60	EMPTY	0.5225	0.5273	0.5257	2.3365e-03	0.0000e+00
61	EMPTY	0.5371	0.5469	0.5399	2.6267e-03	0.0000e+00
62	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5668	1.3381e-03	0.0000e+00
64	EMPTY	0.3613	0.3711	0.3697	2.4244e-03	0.0000e+00
65	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
66	EMPTY	0.4053	0.4102	0.4067	2.2603e-03	0.0000e+00
67	EMPTY	0.4248	0.4297	0.4261	2.1635e-03	0.0000e+00
68	EMPTY	0.4395	0.4443	0.4402	1.8082e-03	0.0000e+00
69	EMPTY	0.4590	0.4639	0.4592	9.6655e-04	0.0000e+00
70	EMPTY	0.4736	0.4883	0.4751	2.8334e-03	0.0000e+00
71	EMPTY	0.4980	0.5029	0.4984	1.3381e-03	0.0000e+00
72	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
73	EMPTY	0.5322	0.5371	0.5328	1.6028e-03	0.0000e+00
74	EMPTY	0.5469	0.5518	0.5506	2.1065e-03	0.0000e+00
75	EMPTY	0.5664	0.5762	0.5670	1.8821e-03	0.0000e+00
76	EMPTY	0.5811	0.5859	0.5823	2.1635e-03	0.0000e+00
77	EMPTY	0.5957	0.6055	0.6023	2.5648e-03	0.0000e+00
78	EMPTY	0.6201	0.6299	0.6254	1.6624e-03	0.0000e+00
79	EMPTY	0.6445	0.6494	0.6485	1.8950e-03	0.0000e+00
80	PAN020136	65.5601	68.6119	66.7732	7.7119e-01	8.8587e-01
81	PAN050136	121.0512	122.4245	121.6585	3.2109e-01	1.7073e+00
82	PAN070136	82.7088	83.7006	83.2444	2.1934e-01	8.9454e-01
83	PAN080136	41.1578	41.9207	41.4171	1.6744e-01	8.7614e-01
84	PAN090136	43.0872	44.1553	43.6899	2.7150e-01	8.7683e-01
85	PAN100136	31.3262	31.9365	31.6146	1.5125e-01	8.7358e-01
86	PAN105136	19.3545	19.9649	19.6078	1.4164e-01	8.7138e-01
87	PAN110136	21.0888	21.7754	21.4092	1.8368e-01	8.7164e-01
88	PAN115136	21.7666	22.3769	22.0733	1.3999e-01	8.7175e-01
89	PAN120136	21.5950	22.2054	21.8269	1.5640e-01	8.7171e-01
90	PAN125136	24.1479	24.8346	24.5126	1.6261e-01	8.7216e-01
91	PAN130136	19.4161	19.7976	19.6694	8.7790e-02	8.7139e-01
92	PAN120048	37.1083	37.9476	37.5127	8512e-01	8.7504e-01
93	PAN130048	44.5588	45.6269	45.0043	2.3394e-01	8.7724e-01
94	PAN120224	35.2920	35.8261	35.5880	1.5231e-01	8.7454e-01
95	PAN130224	41.8078	42.7996	42.3282	1.9841e-01	8.7641e-01
96	PAN120312	40.8923	41.4263	41.1563	1.3544e-01	8.7606e-01
97	PAN130312	44.5515	45.0855	44.8216	1.4394e-01	8.7719e-01
98	PAB000136	46.3728	46.8306	46.5944	9.8031e-02	5.9158e-01
99	PAB100136	32.4577	32.6408	32.5318	4.7957e-02	5.8567e-01
100	PAB125136	28.4109	28.5940	28.4869	4.5879e-02	5.8436e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	45.9168	46.7713	46.3075	1.8619e-01	7.5888e-01
102	PRV0000001	24.4677	24.5897	24.4725	2.4164e-02	7.5249e-01
103	PSR0000001	25.3763	25.4983	25.4373	6.1655e-02	7.5269e-01
104	PFM0000001	95.1849	97.0160	96.0675	5.1084e-01	5.5469e-01
105	PAN000136	516.6570	523.9813	519.9714	1.6789e+00	5.0888e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.7764	-7.2286	2.9515e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0074	2.4642e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
112	VPW0000001	-0.2554	0.1352	0.0141	1.0358e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0093	8.4262e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0230	1.1272e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0096	1.0654e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0415	9.2456e-02	8.1000e-01
117	VPW0000006	-0.2366	0.3493	0.0563	1.1334e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.3469	1.0902e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.2627	1.3222e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.2970	1.3624e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1562	2.1364e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1258	3.2714e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0515	3.6326e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.8825e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0132	2.2603e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.1583e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	3.2178e-03	0.0000e+00
128	IHT0000001	-0.1503	0.0451	-0.0096	8.8585e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0082	9.0412e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	-0.0077	8.3612e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	0.0232	9.7377e-02	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0279	9.0756e-02	4.1000e+00
135	IHT0000008	-0.2366	0.1540	0.0212	1.0014e-01	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0236	7.9017e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	IHT0000011	-0.2291	0.3568	0.0170	1.0297e-01	4.1000e+00
139	IHT0000012	-0.0864	0.3042	0.0035	1.1306e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0367	1.1084e-01	4.1000e+00
141	IHT0000014	-0.0639	0.3268	0.0533	1.1161e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	0.0003	6.7888e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0416	1.0595e-01	4.1000e+00
144	IHT0000017	-0.2629	0.5183	0.0183	2.0939e-01	4.1000e+00
145	IHT0000018	-0.3117	0.2742	-0.0383	1.1838e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1804	8.3612e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0198	1.0259e-01	4.1000e+00
148	IHT0000021	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
149	IHT0000022	-0.2892	0.1014	-0.0431	9.5112e-02	4.1000e+00
150	IHT0000023	-0.0113	0.1840	0.0239	7.5798e-02	4.1000e+00
151	IHT0000024	0.0376	0.2329	0.0805	8.1729e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0332	6.6498e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0229	6.7888e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0122	6.4113e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0201	1.1632e-01	4.1000e+00

Test: Jul31_18

sum1

Date: Tue Jul 31 11:51:07 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.3493	0.0056	1.0106e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	-0.0081	9.5357e-02	4.1000e+00
158	IHT000031	-0.2442	0.1465	0.0371	1.0559e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0057	8.6541e-02	4.1000e+00
160	IHT000033	-0.4282	0.1578	0.0054	1.0654e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0007	9.0412e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	8.8321e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0041	9.8332e-02	4.1000e+00

Velocity 1 = 24.9638 (ft/sec) (+/- 1.6918 %)
Velocity 2 = 13.4277 (ft/sec) (+/- 1.7032 %)
Pressure drop = 18.8132 (psi)
Tsats in = 276.5790 (deg F) Tsats out = 247.4045 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 33899.9922 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 968.0990 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0527	74.4796	74.2444	1.4607e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0504	1.3847e-01	1.9000e+00
2	TFM000001	88.5229	89.5718	88.9637	2.2766e-01	1.9002e+00
3	TIN000001	87.7358	88.3671	88.0235	1.6180e-01	1.9002e+00
4	TRV000001	88.3063	89.1448	88.7469	2.0378e-01	1.9002e+00
5	TSR000001	87.7859	88.5194	88.1884	1.7033e-01	1.9002e+00
6	TAO020136	80.4772	81.5353	80.9954	2.2268e-01	1.9001e+00
7	TAO050136	88.1694	89.0078	88.5461	1.8885e-01	1.9002e+00
8	TAO070136	88.0898	88.9324	88.5177	1.9517e-01	1.9002e+00
9	TAO080136	88.0695	88.6990	88.4546	1.5333e-01	1.9002e+00
10	TAO090136	88.6442	89.4836	89.0426	1.9736e-01	1.9002e+00
11	TAO100136	87.9990	88.8390	88.4147	1.7148e-01	1.9002e+00
12	TAO105136	88.8224	89.8733	89.4143	1.9272e-01	1.9003e+00
13	TAO110136	88.4697	89.2013	88.8075	1.8524e-01	1.9002e+00
14	TAO115136	88.5390	89.3798	88.9275	2.0602e-01	1.9002e+00
15	TAO120136	88.1555	88.7862	88.4345	1.5993e-01	1.9002e+00
16	TAO125136	88.8956	89.6300	89.2147	1.6025e-01	1.9002e+00
17	TAO130136	88.0009	88.7299	88.4227	1.5378e-01	1.9002e+00
18	TAO120048	74.9821	76.0422	75.3073	2.0133e-01	1.9000e+00
19	TAO130048	87.8780	88.5080	88.2635	1.5058e-01	1.9002e+00
20	TAO120224	88.1992	88.9345	88.6107	1.7400e-01	1.9002e+00
21	TAO130224	88.2512	88.9827	88.6102	1.8362e-01	1.9002e+00
22	TAO120312	88.1835	89.0246	88.6512	1.9792e-01	1.9002e+00
23	TAO130312	88.2615	88.6823	88.4890	1.2390e-01	1.9002e+00
24	TRT020000	88.5636	89.4053	88.9974	2.1652e-01	1.9002e+00
25	TRT070000	88.3427	89.1859	88.8288	1.8606e-01	1.9002e+00
26	TRT100000	88.7071	89.5459	89.1138	2.1558e-01	1.9002e+00
27	TRT120000	88.5147	89.1449	88.8320	1.7209e-01	1.9002e+00
28	TRT125000	88.4979	89.2281	88.8511	1.7185e-01	1.9002e+00
29	TRT130000	88.3171	89.0517	88.6875	1.5908e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6150	1.9297e-01	1.9011e+00
31	TAF050136	88.6549	89.4933	89.0571	1.8811e-01	1.9002e+00
32	TAF070136	88.8538	89.6914	89.3280	1.8737e-01	1.9003e+00
33	TAF080136	88.6132	89.2420	88.9554	1.5524e-01	1.9002e+00
34	TAF090136	74.6833	75.8497	75.2678	2.4873e-01	1.9000e+00
35	TAF100136	88.4761	89.3178	88.8928	1.9196e-01	1.9002e+00
36	TAF105136	88.2635	89.0982	88.7386	2.3803e-01	1.9002e+00
37	TAF110136	88.2990	88.9271	88.6176	1.6569e-01	1.9002e+00
38	TAF115136	88.7937	89.5277	89.1894	1.8551e-01	1.9002e+00
39	TAF120136	88.6234	89.2529	89.0298	1.4468e-01	1.9002e+00
40	TAF125136	88.5989	89.6417	89.0878	2.7571e-01	1.9002e+00
41	TAF130136	88.3869	89.1206	88.8407	1.5644e-01	1.9002e+00
42	TAF120048	88.7693	89.7182	89.2537	2.1943e-01	1.9002e+00
43	TAF130048	88.4628	89.4067	88.8803	1.9201e-01	1.9002e+00
44	TAF120224	88.4531	89.2924	88.9497	1.8992e-01	1.9002e+00
45	TAF130224	87.9855	88.9335	88.4177	1.7493e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1194	1.8833e-01	1.9010e+00
47	EMPTY	39.1464	39.8352	39.2683	1.4140e-01	1.9010e+00
48	TAI130048	88.4578	89.7171	89.1004	2.8215e-01	1.9002e+00
49	TAI130136	87.9648	88.9079	88.3946	1.9634e-01	1.9002e+00
50	TAI130224	88.8088	90.0701	89.4848	3.1238e-01	1.9003e+00
51	TAI130312	88.3852	89.1206	88.7284	1.9513e-01	1.9002e+00
52	TRR130000	86.8199	88.0784	87.3339	2.1844e-01	1.9002e+00
53	TSI000001	80.0777	80.7119	80.3498	1.3293e-01	1.9001e+00
54	TSI000002	76.0036	77.1674	76.5025	2.5728e-01	1.9000e+00
55	TSO000001	75.9330	76.7836	76.3886	2.0364e-01	1.9000e+00
56	TSO000002	76.3693	77.2179	76.7547	1.8960e-01	1.9000e+00
57	TAF020136	87.7430	88.5866	88.2034	1.9102e-01	1.9002e+00
58	TAF120312	88.0096	88.9546	88.4831	2.5354e-01	1.9002e+00
59	TAF130312	87.8175	88.6573	88.1733	1.8537e-01	1.9002e+00
60	EMPTY	0.5225	0.5273	0.5266	1.7263e-03	0.0000e+00
61	EMPTY	0.5371	0.5420	0.5407	2.1781e-03	0.0000e+00
62	EMPTY	0.5518	0.5566	0.5519	6.9754e-04	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5677	2.1781e-03	0.0000e+00
64	EMPTY	0.3662	0.3711	0.3706	1.4934e-03	0.0000e+00
65	EMPTY	0.3906	0.3955	0.3908	9.7615e-04	0.0000e+00
66	EMPTY	0.4053	0.4102	0.4072	2.4037e-03	0.0000e+00
67	EMPTY	0.4248	0.4297	0.4270	2.4538e-03	0.0000e+00
68	EMPTY	0.4395	0.4443	0.4404	1.9883e-03	0.0000e+00
69	EMPTY	0.4590	0.4639	0.4591	6.9754e-04	0.0000e+00
70	EMPTY	0.4736	0.4883	0.4763	3.0003e-03	0.0000e+00
71	EMPTY	0.4980	0.5029	0.4987	1.7263e-03	0.0000e+00
72	EMPTY	0.5078	0.5176	0.5127	9.9670e-04	0.0000e+00
73	EMPTY	0.5322	0.5371	0.5329	1.7263e-03	0.0000e+00
74	EMPTY	0.5420	0.5518	0.5504	2.4414e-03	0.0000e+00
75	EMPTY	0.5664	0.5713	0.5667	1.1827e-03	0.0000e+00
76	EMPTY	0.5811	0.5859	0.5827	2.3483e-03	0.0000e+00
77	EMPTY	0.6006	0.6055	0.6031	2.4662e-03	0.0000e+00
78	EMPTY	0.6250	0.6299	0.6253	1.1827e-03	0.0000e+00
79	EMPTY	0.6445	0.6494	0.6486	1.8234e-03	0.0000e+00
80	PAN020136	65.8653	68.6119	66.9677	6.4589e-01	8.8596e-01
81	PAN050136	121.0512	122.5770	121.8702	3.6014e-01	1.7074e+00
82	PAN070136	82.9377	83.8532	83.4142	2.1888e-01	8.9464e-01
83	PAN080136	41.1578	41.8444	41.5252	1.6383e-01	8.7617e-01
84	PAN090136	43.1635	43.8501	43.5916	1.6394e-01	8.7680e-01
85	PAN100136	31.3262	32.0128	31.6843	1.5589e-01	8.7360e-01
86	PAN105136	19.2782	19.8123	19.5865	1.2932e-01	8.7138e-01
87	PAN110136	21.0888	22.0043	21.4952	1.8254e-01	8.7166e-01
88	PAN115136	21.9192	22.4532	22.1885	1.1455e-01	8.7177e-01
89	PAN120136	21.5950	21.9765	21.8067	9.8821e-02	8.7171e-01
90	PAN125136	24.3005	24.9872	24.6540	1.5155e-01	8.7218e-01
91	PAN130136	19.4924	19.9501	19.6917	1.0309e-01	8.7139e-01
92	PAN120048	36.9557	37.8713	37.4026	2.1010e-01	8.7501e-01
93	PAN130048	44.2536	45.7032	45.0009	2.7945e-01	8.7724e-01
94	PAN120224	35.4446	35.8261	35.6595	9.6848e-02	8.7456e-01
95	PAN130224	42.1130	42.7233	42.4867	1.5436e-01	8.7646e-01
96	PAN120312	40.8160	41.4263	41.1181	1.4355e-01	8.7605e-01
97	PAN130312	44.7041	45.2381	44.9330	1.4856e-01	8.7722e-01
98	PAB000136	46.3270	46.8764	46.6045	1.1033e-01	5.9159e-01
99	PAB100136	32.4119	32.6408	32.5156	5.0124e-02	5.8567e-01
100	PAB125136	28.3651	28.5482	28.4623	4.4453e-02	5.8435e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	45.7948	46.6493	46.2930	1.8619e-01	7.5888e-01
102	PRV0000001	24.3456	24.5897	24.4876	5.1951e-02	7.5249e-01
103	PSR0000001	25.3763	25.4983	25.3962	4.5586e-02	7.5268e-01
104	PFM0000001	95.1849	96.7413	96.0630	3.5748e-01	5.5469e-01
105	PAN000136	516.6570	523.9813	520.8517	1.6593e+00	5.0894e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.1563e-05	2.1158e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	1.1865	-5.5324	3.2526e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0072	2.4621e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
112	VPW0000001	-0.2554	0.3305	0.0555	1.1219e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0382	9.6150e-02	8.1000e-01
114	VPW0000003	-0.2817	0.1089	0.0013	1.0594e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0207	1.2189e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0376	9.7656e-02	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0623	1.1348e-01	8.1000e-01
118	IPW0000001	-1.8397	4.0173	0.4314	1.1514e+00	8.1000e+00
119	IPW0000002	-2.6642	1.2383	-0.0758	1.0826e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.4546	1.2561e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1843	2.7536e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0580	3.3661e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0140	3.7752e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0194	3.0704e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.4826e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0168	3.1615e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.7793e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	-0.0028	1.0941e-01	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0047	6.7148e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0002	7.4477e-02	4.1000e+00
131	IHT0000004	-0.0901	0.4958	0.0334	1.3037e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0526	1.0836e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	-0.0083	9.6990e-02	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0089	7.5986e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0344	9.6150e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0042	6.8582e-02	4.1000e+00
137	IHT0000010	-0.0488	0.3418	0.0149	1.0076e-01	4.1000e+00
138	IHT0000011	-0.0338	0.3568	0.0340	1.0204e-01	4.1000e+00
139	IHT0000012	-0.0864	0.1089	0.0093	9.8648e-02	4.1000e+00
140	IHT0000013	-0.1578	0.0376	-0.0262	9.2540e-02	4.1000e+00
141	IHT0000014	-0.2592	0.3268	0.0637	1.1658e-01	4.1000e+00
142	IHT0000015	-0.0075	0.1878	0.0044	4.7310e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0199	9.7656e-02	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0320	2.7368e-01	4.1000e+00
145	IHT0000018	-0.3117	0.2742	-0.0248	1.2028e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.2005	1.1014e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0025	1.0594e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0239	1.0594e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0301	9.2540e-02	4.1000e+00
150	IHT0000023	-0.2066	0.5746	0.0166	1.0548e-01	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0934	9.7656e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0329	7.8092e-02	4.1000e+00
153	IHT0000026	-0.1803	0.0150	-0.0089	6.4688e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0047	7.8092e-02	4.1000e+00
155	IHT0000028	-0.3756	0.2103	0.0190	1.2282e-01	4.1000e+00

Test: Jul31_18

sum2

Date: Tue Jul 31 11:51:07 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0504	1.0625e-01	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0633	1.1276e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0867	1.2735e-01	4.1000e+00
159	IHT000032	-0.0451	0.5409	0.0386	1.1960e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0342	1.0315e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0347	9.6318e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0654	1.0625e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0097	1.0625e-01	4.1000e+00

Test: Jul31_18 dif Date: Tue Jul 31 11:51:07 1990 Page: 1

Velocity 1 = 0.000500 (ft/sec)

Velocity 2 = 0.000000 (ft/sec)

Pressure Drop = 0.031799 (psi)

Tsat in = 0.013306 (deg F) Tsat out = 0.049805 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0124	0.0167
1	TRF000002	0.0242	0.0327
2	TFM000001	0.0068	0.0076
3	TIN000001	0.0037	0.0042
4	TRV000001	0.0401	0.0452
5	TSR000001	0.0060	0.0068
6	TAO020136	0.0549	0.0678
7	TAO050136	0.0012	0.0014
8	TAO070136	0.0044	0.0050
9	TAO080136	0.0055	0.0062
10	TAO090136	0.0193	0.0217
11	TAO100136	0.0397	0.0449
12	TAO105136	0.0097	0.0108
13	TAO110136	0.0162	0.0182
14	TAO115136	0.0468	0.0526
15	TAO120136	0.0035	0.0040
16	TAO125136	0.0022	0.0025
17	TAO130136	0.0104	0.0118
18	TAO120048	0.0040	0.0053
19	TAO130048	0.0069	0.0078
20	TAO120224	0.0187	0.0211
21	TAO130224	0.0241	0.0272
22	TAO120312	0.0031	0.0035
23	TAO130312	0.0017	0.0019
24	TRT020000	0.0102	0.0115
25	TRT070000	0.0034	0.0038
26	TRT100000	0.0186	0.0209
27	TRT120000	0.0127	0.0143
28	TRT125000	0.0175	0.0197
29	TRT130000	0.0010	0.0011
30	EMPTY	0.0411	0.1036
31	TAF050136	0.0025	0.0028
32	TAF070136	0.0115	0.0129
33	TAF080136	0.0089	0.0100
34	TAF090136	0.0370	0.0491
35	TAF100136	0.0651	0.0733
36	TAF105136	0.0261	0.0294
37	TAF110136	0.0147	0.0166
38	TAF115136	0.0005	0.0006
39	TAF120136	0.0024	0.0027
40	TAF125136	0.0867	0.0974
41	TAF130136	0.0028	0.0032
42	TAF120048	0.0240	0.0269
43	TAF130048	0.0544	0.0612
44	TAF120224	0.0078	0.0088
45	TAF130224	0.0340	0.0385

#	Name	Abs Diff	%Diff
46	EMPTY	0.0162	0.0425
47	EMPTY	0.0159	0.0405
48	TAI130048	0.0024	0.0027
49	TAI130136	0.0169	0.0191
50	TAI130224	0.0514	0.0575
51	TAI130312	0.0384	0.0433
52	TRR130000	0.0291	0.0333
53	TSI000001	0.0388	0.0483
54	TSI000002	0.0323	0.0422
55	TSO000001	0.0441	0.0577
56	TSO000002	0.0141	0.0184
57	TAF020136	0.0494	0.0560
58	TAF120312	0.0095	0.0107
59	TAF130312	0.0076	0.0086
60	EMPTY	0.0009	0.1712
61	EMPTY	0.0008	0.1482
62	EMPTY	0.0001	0.0181
63	EMPTY	0.0009	0.1588
64	EMPTY	0.0009	0.2434
65	EMPTY	0.0000	0.0000
66	EMPTY	0.0005	0.1229
67	EMPTY	0.0009	0.2112
68	EMPTY	0.0002	0.0454
69	EMPTY	0.0001	0.0218
70	EMPTY	0.0012	0.2526
71	EMPTY	0.0003	0.0602
72	EMPTY	0.0000	0.0000
73	EMPTY	0.0001	0.0188
74	EMPTY	0.0002	0.0363
75	EMPTY	0.0003	0.0529
76	EMPTY	0.0004	0.0687
77	EMPTY	0.0008	0.1328
78	EMPTY	0.0001	0.0160
79	EMPTY	0.0001	0.0154
80	PAN020136	0.1945	0.2913
81	PAN050136	0.2117	0.1740
82	PAN070136	0.1698	0.2040
83	PAN080136	0.1081	0.2610
84	PAN090136	0.0983	0.2250
85	PAN100136	0.0697	0.2205
86	PAN105136	0.0213	0.1086
87	PAN110136	0.0860	0.4017
88	PAN115136	0.1152	0.5219
89	PAN120136	0.0202	0.0925
90	PAN125136	0.1414	0.5768
91	PAN130136	0.0223	0.1134
92	PAN120048	0.1101	0.2935
93	PAN130048	0.0034	0.0076
94	PAN120224	0.0715	0.2009
95	PAN130224	0.1585	0.3744
96	PAN120312	0.0382	0.0928
97	PAN130312	0.1114	0.2485
98	PAB000136	0.0101	0.0217
99	PAB100136	0.0162	0.0498
100	PAB125136	0.0246	0.0864

Test: Jul31_18

dif

Date: Tue Jul 31 11:51:07 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0145	0.0313
102	PRV000001	0.0151	0.0617
103	PSR000001	0.0411	0.1616
104	PFM000001	0.0045	0.0047
105	PAN000136	0.8803	0.1693
106	PFM000002	0.0000	0.0000
107	EMPTY	0.0000	0.0000
108	EMPTY	1.6962	23.4651
109	EMPTY	0.0002	2.7027
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0414	293.6170
113	VPW000002	0.0289	310.7527
114	VPW000003	0.0217	94.3478
115	VPW000004	0.0111	115.6250
116	VPW000005	0.0039	9.3976
117	VPW000006	0.0060	10.6572
118	IPW000001	0.0845	24.3586
119	IPW000002	0.3385	128.8542
120	IPW000003	0.1576	53.0640
121	IPW000004	0.0281	17.9898
122	IPW000005	0.0678	53.8951
123	IPW000006	0.0375	72.8155
124	EMPTY	0.0002	1.0204
125	EMPTY	0.0000	0.0000
126	EMPTY	0.0007	4.3478
127	EMPTY	0.0007	4.6053
128	IHT000001	0.0068	70.8333
129	IHT000002	0.0035	42.6829
130	IHT000003	0.0079	102.5974
131	IHT000004	0.0102	43.9655
132	IHT000005	0.0338	179.7872
133	IHT000006	0.0172	193.2584
134	IHT000007	0.0190	68.1004
135	IHT000008	0.0132	62.2642
136	IHT000009	0.0194	82.2034
137	IHT000010	0.0027	15.3409
138	IHT000011	0.0170	100.0000
139	IHT000012	0.0058	165.7143
140	IHT000013	0.0105	28.6104
141	IHT000014	0.0104	19.5122
142	IHT000015	0.0041	1366.6666
143	IHT000016	0.0217	52.1635
144	IHT000017	0.0137	74.8634
145	IHT000018	0.0135	35.2480
146	IHT000019	0.0201	11.1419
147	IHT000020	0.0173	87.3737
148	IHT000021	0.0138	36.6048
149	IHT000022	0.0130	30.1624
150	IHT000023	0.0073	30.5439
151	IHT000024	0.0129	16.0248
152	IHT000025	0.0003	0.9036
153	IHT000026	0.0318	138.8646
154	IHT000027	0.0075	61.4754
155	IHT000028	0.0391	194.5274

Test: Jul31_18

dif

Date: Tue Jul 31 11:51:07 1990

Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0448	800.0000
157	IHT000030	0.0714	881.4814
158	IHT000031	0.0496	133.6927
159	IHT000032	0.0329	577.1930
160	IHT000033	0.0288	533.3334
161	IHT000034	0.0354	5057.1431
162	IHT000035	0.0643	5845.4546
163	IHT000036	0.0138	336.5854

Velocity 1 = 11.0615 (ft/sec) (+/- 2.1413 %)
Velocity 2 = 10.8823 (ft/sec) (+/- 1.7443 %)
Pressure drop = 0.0839 (psi)
Tsat in = 241.6055 (deg F) Tsat out = 241.3155 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4119.9077 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1689.3126 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2704	1.8031e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0661	1.3492e-01	1.9000e+00
2	TFM000001	88.9423	89.7813	89.4119	1.8007e-01	1.9003e+00
3	TIN000001	88.2609	88.7875	88.5098	1.5293e-01	1.9002e+00
4	TRV000001	88.5147	89.5624	88.9472	2.1102e-01	1.9002e+00
5	TSR000001	88.2034	88.8338	88.5400	1.5283e-01	1.9002e+00
6	TAO020136	80.7938	81.5353	81.1840	2.1214e-01	1.9001e+00
7	TAO050136	88.5871	89.2165	88.9313	1.6815e-01	1.9002e+00
8	TAO070136	88.5119	89.1436	88.9243	1.6313e-01	1.9002e+00
9	TAO080136	88.5918	89.1162	88.8894	1.4577e-01	1.9002e+00
10	TAO090136	88.9586	89.9021	89.5037	2.1286e-01	1.9003e+00
11	TAO100136	88.4177	89.0485	88.7963	1.8003e-01	1.9002e+00
12	TAO105136	89.3476	90.2933	89.8059	1.9663e-01	1.9003e+00
13	TAO110136	88.8851	89.5141	89.2252	1.6318e-01	1.9002e+00
14	TAO115136	88.9594	89.9052	89.3168	2.0582e-01	1.9003e+00
15	TAO120136	88.5748	88.9960	88.8277	1.2028e-01	1.9002e+00
16	TAO125136	89.1050	89.8392	89.5454	1.6695e-01	1.9003e+00
17	TAO130136	88.4140	89.1439	88.8075	1.7193e-01	1.9002e+00
18	TAO120048	75.1936	75.8315	75.4747	1.3541e-01	1.9000e+00
19	TAO130048	88.2957	89.0302	88.6741	1.7733e-01	1.9002e+00
20	TAO120224	88.6186	89.4585	88.9884	1.9004e-01	1.9002e+00
21	TAO130224	88.6669	89.2953	89.0397	1.6798e-01	1.9002e+00
22	TAO120312	88.6034	89.4448	89.0370	2.0556e-01	1.9002e+00
23	TAO130312	88.4708	89.1007	88.8152	1.6567e-01	1.9002e+00
24	TRT020000	88.8792	89.8261	89.4180	1.7995e-01	1.9003e+00
25	TRT070000	88.8696	89.6080	89.2371	1.6527e-01	1.9002e+00
26	TRT100000	89.0212	89.9639	89.4821	1.9743e-01	1.9003e+00
27	TRT120000	88.9332	89.5638	89.2153	1.7545e-01	1.9002e+00
28	TRT125000	88.8094	89.5418	89.2319	1.7294e-01	1.9002e+00
29	TRT130000	88.6304	89.2609	89.0172	1.7409e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6837	2.0005e-01	1.9011e+00
31	TAF050136	89.0722	89.8060	89.4586	1.7379e-01	1.9003e+00
32	TAF070136	89.3757	90.1081	89.7065	1.7839e-01	1.9003e+00
33	TAF080136	88.9257	89.6580	89.3316	1.7512e-01	1.9003e+00
34	TAF090136	75.0012	76.0608	75.4383	2.4846e-01	1.9000e+00
35	TAF100136	88.6869	89.5280	89.2167	1.7123e-01	1.9002e+00
36	TAF105136	88.5743	89.6195	89.0976	2.2016e-01	1.9002e+00
37	TAF110136	88.5079	89.3452	88.9685	1.7837e-01	1.9002e+00
38	TAF115136	89.1066	89.9457	89.5308	2.0959e-01	1.9003e+00
39	TAF120136	89.0405	89.6703	89.3517	1.4208e-01	1.9003e+00
40	TAF125136	88.9101	89.8496	89.4027	2.6635e-01	1.9003e+00
41	TAF130136	88.8048	89.6441	89.2500	1.6765e-01	1.9002e+00
42	TAF120048	89.1910	90.1401	89.6428	2.2235e-01	1.9003e+00
43	TAF130048	88.8811	89.6160	89.2175	2.1085e-01	1.9002e+00
44	TAF120224	88.8712	89.7108	89.3124	2.1498e-01	1.9003e+00
45	TAF130224	88.4070	89.1441	88.7272	1.8044e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	1.8672e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2705	1.4079e-01	1.9010e+00
48	TAI130048	88.8779	90.1362	89.4859	3.1337e-01	1.9003e+00
49	TAI130136	88.3830	89.1168	88.7437	1.6571e-01	1.9002e+00
50	TAI130224	89.2289	90.3855	89.8433	3.1379e-01	1.9003e+00
51	TAI130312	88.6997	89.4360	89.0702	2.1359e-01	1.9002e+00
52	TRR130000	87.3437	88.2876	87.7006	1.9420e-01	1.9002e+00
53	TSI000001	80.7095	81.3434	81.0266	1.4940e-01	1.9001e+00
54	TSI000002	76.3215	77.3785	76.8496	2.4997e-01	1.9000e+00
55	TSO000001	76.2513	76.9964	76.6434	2.0658e-01	1.9000e+00
56	TSO000002	76.4753	77.2179	76.7937	1.8682e-01	1.9000e+00
57	TAF020136	88.1652	89.0090	88.5914	1.7821e-01	1.9002e+00
58	TAF120312	88.4291	89.3738	88.9455	2.7778e-01	1.9002e+00
59	TAF130312	88.2365	88.8667	88.5266	1.3346e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5337	2.2603e-03	0.0000e+00
61	EMPTY	0.5469	0.5518	0.5473	1.3381e-03	0.0000e+00
62	EMPTY	0.5566	0.5664	0.5605	2.2058e-03	0.0000e+00
63	EMPTY	0.5713	0.5762	0.5758	1.3381e-03	0.0000e+00
64	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
65	EMPTY	0.3809	0.3906	0.3860	1.5314e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4045	1.8082e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4227	2.4484e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4358	2.1635e-03	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4544	1.1714e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4720	2.3365e-03	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4939	1.8082e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5084	1.6028e-03	0.0000e+00
73	EMPTY	0.5273	0.5322	0.5285	2.1065e-03	0.0000e+00
74	EMPTY	0.5420	0.5469	0.5460	1.8950e-03	0.0000e+00
75	EMPTY	0.5615	0.5664	0.5617	9.6655e-04	0.0000e+00
76	EMPTY	0.5762	0.5811	0.5782	2.4344e-03	0.0000e+00
77	EMPTY	0.5957	0.6006	0.5980	2.4642e-03	0.0000e+00
78	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
79	EMPTY	0.6396	0.6494	0.6445	9.8648e-04	0.0000e+00
80	PAN020136	0.4814	0.9392	0.6828	1.0763e-01	8.7000e-01
81	PAN050136	0.2016	0.8119	0.5403	1.6397e-01	1.6800e+00
82	PAN070136	0.0062	0.3876	0.2641	1.0442e-01	8.7000e-01
83	PAN080136	-0.1935	0.1879	-0.0318	9.9463e-02	8.7000e-01
84	PAN090136	0.3626	0.6677	0.4984	7.2772e-02	8.7000e-01
85	PAN100136	-1.7854	-1.4039	-1.5733	7.9032e-02	8.7001e-01
86	PAN105136	-0.2530	0.0522	-0.0577	7.4178e-02	8.7000e-01
87	PAN110136	0.1080	0.4131	0.2621	6.6279e-02	8.7000e-01
88	PAN115136	0.0991	0.4806	0.2868	8.4719e-02	8.7000e-01
89	PAN120136	0.6142	0.8430	0.7240	6.1962e-02	8.7000e-01
90	PAN125136	0.3442	0.6494	0.5334	5.3926e-02	8.7000e-01
91	PAN130136	-0.0389	0.1900	0.0847	5.3149e-02	8.7000e-01
92	PAN120048	-1.1149	-0.6572	-0.9440	8.7953e-02	8.7000e-01
93	PAN130048	0.6134	0.9186	0.7706	8.7750e-02	8.7000e-01
94	PAN120224	-1.3291	-1.1002	-1.2284	6.7960e-02	8.7001e-01
95	PAN130224	0.3802	0.6091	0.4824	6.0899e-02	8.7000e-01
96	PAN120312	0.0750	0.3039	0.2383	6.5413e-02	8.7000e-01
97	PAN130312	0.3773	0.7588	0.5711	8.4719e-02	8.7000e-01
98	PAB000136	25.6361	25.7734	25.7203	3.6245e-02	5.8355e-01
99	PAB100136	25.6370	25.7743	25.7267	4.0270e-02	5.8356e-01
100	PAB125136	25.5270	25.6643	25.5892	3.8974e-02	5.8352e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	25.4090	25.6532	25.5506	5.7096e-02	7.5272e-01
102	PRV0000001	24.3456	24.5897	24.5824	3.8286e-02	7.5251e-01
103	PSR0000001	25.3763	25.4983	25.3787	1.7263e-02	7.5268e-01
104	PFM0000001	18.3722	19.1046	18.6816	1.6738e-01	5.0218e-01
105	PAN000136	1.2151	3.5040	2.3229	5.4784e-01	4.9200e+00
106	PFM0000002	17.4452	18.4855	18.0761	2.2387e-01	2.0504e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.7129	-7.3439	2.9026e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0045	1.6624e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.0601	0.1352	0.0180	9.6655e-02	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0796	9.6655e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0152	1.1995e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	0.0216	1.1084e-01	8.1000e-01
116	VPW0000005	-0.3531	0.2329	-0.0093	1.2200e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0954	1.0625e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.6203	1.1023e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	-0.0495	1.1567e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.5310	1.2971e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1465	2.4164e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1844	2.6905e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0808	3.4527e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	2.9528e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	2.8266e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	2.8946e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0150	3.5348e-03	0.0000e+00
128	IHT0000001	-0.3456	0.2404	0.0177	9.6735e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0080	6.1257e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	0.0466	9.0412e-02	4.1000e+00
132	IHT0000005	-0.0789	0.1164	0.0305	9.7935e-02	4.1000e+00
133	IHT0000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	IHT0000007	-0.0150	0.1803	0.0123	6.8459e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0002	6.2265e-02	4.1000e+00
137	IHT0000010	-0.0488	0.3418	0.0176	1.0145e-01	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0326	9.3461e-02	4.1000e+00
139	IHT0000012	-0.0864	0.3042	0.0191	1.0595e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT0000014	-0.2592	0.3268	0.0494	1.1223e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0075	7.8918e-02	4.1000e+00
143	IHT0000016	-0.0638	0.5221	0.0338	1.2001e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	-0.0129	2.7633e-01	4.1000e+00
145	IHT0000018	-0.1164	0.0789	-0.0305	9.7935e-02	4.1000e+00
146	IHT0000019	-0.5672	0.0188	-0.2273	1.4664e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0081	1.1223e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
149	IHT0000022	-0.2892	0.2967	-0.0314	1.1464e-01	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0200	8.2393e-02	4.1000e+00
151	IHT0000024	0.0376	0.4282	0.1118	1.0358e-01	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0332	9.5357e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0268	9.1779e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	IHT0000028	-0.1803	0.4056	0.0306	1.1732e-01	4.1000e+00

Test: Jul31_19

sum1

Date: Tue Jul 31 11:56:04 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0329	1.0358e-01	4.1000e+00
157	IHT000030	0.0075	0.3981	0.0388	8.2393e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0644	1.3141e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0291	1.0358e-01	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0367	1.1084e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0227	7.3716e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0675	1.2627e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0389	1.0763e-01	4.1000e+00

Test: Aug01_19

sum2

Date: Wed Aug 1 19:06:33 1990

Page: 1

Velocity 1 = 5.9528 (ft/sec) (+/- 4.9767 %)
Velocity 2 = 5.9343 (ft/sec) (+/- 2.3829 %)
Pressure drop = -1.9579 (psi)
Tsat in = 267.9149 (deg F) Tsat out = 271.0204 (deg F)
Phi inner = 201.7706 (kBtu/hr-ft2) (+/- 1.2812 %)
Phi outer = 201.0199 (kBtu/hr-ft2) (+/- 1.3392 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	86.2206	87.0657	86.6305	1.8314e-01	1.9002e+00
1	TRF000002	86.6347	87.0549	86.9289	1.2734e-01	1.9002e+00
2	TFM000001	88.1342	88.8706	88.4312	1.6660e-01	1.9002e+00
3	TIN000001	87.2698	88.0065	87.6802	1.4460e-01	1.9002e+00
4	TRV000001	88.8294	89.7730	89.1505	2.1394e-01	1.9002e+00
5	TSR000001	150.2188	153.3040	152.0394	8.6083e-01	1.9045e+00
6	TAO020136	101.1028	102.7680	102.1123	4.1942e-01	1.9007e+00
7	TAO050136	221.0517	224.0766	222.2420	7.8592e-01	1.9156e+00
8	TAO070136	226.3702	231.4147	228.4947	9.8134e-01	1.9168e+00
9	TAO080136	270.1900	271.6600	270.9998	3.4697e-01	1.9270e+00
10	TAO090136	283.7423	284.9313	284.2344	2.7848e-01	1.9307e+00
11	TAO100136	278.7015	282.0942	280.4644	6.6863e-01	1.9296e+00
12	TAO105136	290.5515	292.8378	291.6729	5.7442e-01	1.9328e+00
13	TAO110136	292.9092	295.8874	294.3517	6.9427e-01	1.9336e+00
14	TAO115136	292.2108	295.5869	294.1437	7.9057e-01	1.9335e+00
15	TAO120136	295.7687	296.6802	296.1643	2.1599e-01	1.9342e+00
16	TAO125136	238.6326	240.1368	239.4767	3.2925e-01	1.9193e+00
17	TAO130136	288.7777	291.2147	290.3982	5.1137e-01	1.9324e+00
18	TAO120048	122.4675	123.4891	123.0089	2.5625e-01	1.9019e+00
19	TAO130048	291.0090	292.9171	291.7777	4.3834e-01	1.9329e+00
20	TAO120224	287.5608	291.0334	289.6828	7.8631e-01	1.9322e+00
21	TAO130224	276.3085	280.0439	278.2884	7.5280e-01	1.9290e+00
22	TAO120312	279.8595	281.8823	280.6047	4.9857e-01	1.9296e+00
23	TAO130312	279.0541	281.3439	280.1544	4.7347e-01	1.9295e+00
24	TRT020000	219.2436	220.7722	219.8075	3.6223e-01	1.9151e+00
25	TRT070000	262.4550	264.9750	263.6295	7.1072e-01	1.9251e+00
26	TRT100000	272.1825	275.3990	273.8235	8.7098e-01	1.9278e+00
27	TRT120000	277.4842	282.4390	279.9210	1.2000e+00	1.9295e+00
28	TRT125000	290.1483	294.5016	292.4261	9.2687e-01	1.9330e+00
29	TRT130000	291.3755	293.6519	292.4702	4.9289e-01	1.9331e+00
30	EMPTY	39.3761	40.2940	39.8489	2.0428e-01	1.9011e+00
31	TAF050136	153.0746	156.6515	154.3178	8.6357e-01	1.9048e+00
32	TAF070136	180.0194	184.0045	181.8291	1.0551e+00	1.9084e+00
33	TAF080136	265.8359	267.6745	266.7858	3.7609e-01	1.9259e+00
34	TAF090136	100.1613	101.2007	100.6292	2.5886e-01	1.9006e+00
35	TAF100136	218.4436	222.5470	220.2863	8.6866e-01	1.9152e+00
36	TAF105136	230.5855	235.1759	232.9293	9.9281e-01	1.9178e+00
37	TAF110136	243.4011	272.5894	262.0527	7.1736e+00	1.9247e+00
38	TAF115136	266.7050	272.3278	270.5316	1.3300e+00	1.9269e+00
39	TAF120136	274.4508	275.3708	274.9094	2.5737e-01	1.9281e+00
40	TAF125136	269.6919	271.8017	270.8898	4.7605e-01	1.9270e+00
41	TAF130136	269.2686	270.7449	270.0823	2.4581e-01	1.9268e+00
42	TAF120048	267.5871	271.8649	270.3356	9.3089e-01	1.9268e+00
43	TAF130048	269.3839	270.9522	270.4308	3.6241e-01	1.9269e+00
44	TAF120224	243.8351	250.0086	246.7015	1.4112e+00	1.9209e+00
45	TAF130224	252.7549	262.0177	255.7441	1.8188e+00	1.9231e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.2043	1.9842e-01	1.9010e+00
47	EMPTY	39.6057	40.7527	40.2206	2.7591e-01	1.9011e+00
48	TAI130048	279.5893	281.8862	280.5947	4.7271e-01	1.9296e+00
49	TAI130136	285.6331	287.1875	286.4904	3.3779e-01	1.9313e+00
50	TAI130224	278.1322	280.4350	279.0848	5.6076e-01	1.9292e+00
51	TAI130312	276.3631	277.4693	276.9696	2.5131e-01	1.9286e+00
52	TRR130000	142.6603	144.0639	143.3076	3.6668e-01	1.9036e+00
53	TSI000001	65.4729	66.5411	66.0519	2.0948e-01	1.9000e+00
54	TSI000002	75.6649	78.3091	76.8443	5.6030e-01	1.9000e+00
55	TSO000001	64.9085	65.7678	65.2931	2.0830e-01	1.9000e+00
56	TSO000002	86.1289	86.9714	86.5646	2.4240e-01	1.9002e+00
57	TAF020136	109.8273	113.9748	111.4683	8.3503e-01	1.9012e+00
58	TAF120312	236.1510	240.7665	238.0269	1.0561e+00	1.9189e+00
59	TAF130312	251.6451	258.7147	254.7491	1.4396e+00	1.9229e+00
60	EMPTY	4.2920	4.3506	4.3253	1.2544e-02	0.0000e+00
61	EMPTY	4.2871	4.3164	4.3044	6.7780e-03	0.0000e+00
62	EMPTY	4.2725	4.2920	4.2844	4.8488e-03	0.0000e+00
63	EMPTY	4.2676	4.2822	4.2757	4.3684e-03	0.0000e+00
64	EMPTY	2.0508	2.0605	2.0563	1.8821e-03	0.0000e+00
65	EMPTY	2.0654	2.0752	2.0703	9.8648e-04	0.0000e+00
66	EMPTY	2.0752	2.0850	2.0783	2.5648e-03	0.0000e+00
67	EMPTY	2.0898	2.0898	2.0898	0.0000e+00	0.0000e+00
68	EMPTY	2.0947	2.0947	2.0947	0.0000e+00	0.0000e+00
69	EMPTY	2.0996	2.1045	2.1044	6.9053e-04	0.0000e+00
70	EMPTY	2.1094	2.1143	2.1104	1.9730e-03	0.0000e+00
71	EMPTY	2.1240	2.1289	2.1250	1.9730e-03	0.0000e+00
72	EMPTY	2.1289	2.1338	2.1317	2.4344e-03	0.0000e+00
73	EMPTY	2.1387	2.1484	2.1435	1.8429e-03	0.0000e+00
74	EMPTY	2.1484	2.1533	2.1515	2.3941e-03	0.0000e+00
75	EMPTY	2.1582	2.1631	2.1614	2.3365e-03	0.0000e+00
76	EMPTY	2.1631	2.1729	2.1675	2.0337e-03	0.0000e+00
77	EMPTY	2.1729	2.1826	2.1797	2.6100e-03	0.0000e+00
78	EMPTY	2.1924	2.1973	2.1934	1.9730e-03	0.0000e+00
79	EMPTY	2.2070	2.2119	2.2089	2.3941e-03	0.0000e+00
80	PAN020136	-19.9786	4.7406	-11.1087	6.4248e+00	8.7044e-01
81	PAN050136	-36.9479	-15.1279	-26.5506	5.7803e+00	1.6813e+00
82	PAN070136	-24.9507	-6.4876	-16.3279	4.2091e+00	8.7096e-01
83	PAN080136	-13.9265	3.4685	-4.8979	3.9346e+00	8.7009e-01
84	PAN090136	-7.1773	7.3949	-3.8539	3.0730e+00	8.7005e-01
85	PAN100136	-9.6423	-3.5387	-6.8759	1.2491e+00	8.7017e-01
86	PAN105136	-4.2673	0.1577	-2.8971	8.7274e-01	8.7003e-01
87	PAN110136	-1.5632	0.6493	-0.3471	4.6965e-01	8.7000e-01
88	PAN115136	1.7820	3.6894	2.4641	5.1524e-01	8.7002e-01
89	PAN120136	2.0622	5.1902	3.2493	8.1768e-01	8.7004e-01
90	PAN125136	4.0355	7.5450	5.4744	6.2269e-01	8.7011e-01
91	PAN130136	6.8819	9.7811	8.5894	6.1091e-01	8.7026e-01
92	PAN120048	4.6041	9.5633	7.0379	1.0954e+00	8.7018e-01
93	PAN130048	12.0839	15.6698	14.0096	9.0293e-01	8.7070e-01
94	PAN120224	2.1746	5.3790	3.5830	7.8295e-01	8.7005e-01
95	PAN130224	10.9704	14.7851	12.6855	8.7033e-01	8.7058e-01
96	PAN120312	0.5782	5.2321	1.9896	8.6169e-01	8.7001e-01
97	PAN130312	9.7599	12.5828	11.2568	6.0936e-01	8.7046e-01
98	PAB000136	39.8398	40.9384	40.3680	2.8717e-01	5.8871e-01
99	PAB100136	42.6145	43.0265	42.8178	1.1142e-01	5.8980e-01
100	PAB125136	42.3680	42.7342	42.5173	9.8662e-02	5.8966e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2813	40.7462	40.1236	4.3299e-01	7.5668e-01
102	PRV000001	19.7289	19.8509	19.7411	3.6993e-02	7.5162e-01
103	PSR000001	41.0935	41.4597	41.3303	5.7362e-02	7.5708e-01
104	PFM000001	5.1850	5.4597	5.3333	8.4539e-02	5.0018e-01
105	PAN000136	-67.3170	-40.3089	-54.2066	8.0048e+00	4.9219e+00
106	PFM000002	5.2195	5.3537	5.2997	3.1491e-02	2.0044e-01
107	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-8.9453	-9.9467	2.0884e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	145.0458	145.4365	145.2451	1.0799e-01	1.1898e+00
113	VPW000002	169.6627	170.0533	169.7681	1.1975e-01	1.3014e+00
114	VPW000003	209.0370	209.4276	209.2753	1.0654e-01	1.4942e+00
115	VPW000004	149.1248	149.5155	149.2499	1.0992e-01	1.2075e+00
116	VPW000005	198.7267	199.1174	198.8751	1.1545e-01	1.4422e+00
117	VPW000006	210.2652	210.8511	210.5426	1.3720e-01	1.5006e+00
118	IPW000001	769.2609	773.1656	771.9161	1.0255e+00	1.0139e+01
119	IPW000002	1820.0089	1825.8628	1822.0386	1.3633e+00	1.6517e+01
120	IPW000003	1863.0374	1868.8875	1866.8597	1.2433e+00	1.6826e+01
121	IPW000004	534.8557	535.8323	535.4903	3.3087e-01	4.6793e+00
122	IPW000005	354.3722	355.8369	355.1046	2.9999e-01	3.4453e+00
123	IPW000006	369.2627	370.7276	369.7902	3.5348e-01	3.5404e+00
124	EMPTY	-0.0244	-0.0098	-0.0187	3.5141e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.5034e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0049	-0.0140	3.5582e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	2.3778e-03	0.0000e+00
128	IHT000001	181.2387	183.7778	182.2700	5.4824e-01	4.4869e+00
129	IHT000002	186.4859	188.8296	187.5094	5.0772e-01	4.5084e+00
130	IHT000003	188.1949	190.1480	189.2457	4.7986e-01	4.5157e+00
131	IHT000004	184.9534	186.7113	185.8285	4.5547e-01	4.5015e+00
132	IHT000005	182.8012	184.7544	183.7700	4.7014e-01	4.4930e+00
133	IHT000006	176.8930	179.0415	178.0415	4.7946e-01	4.4699e+00
134	IHT000007	185.4868	187.6352	186.6860	4.7517e-01	4.5050e+00
135	IHT000008	183.2407	185.9751	184.6547	5.4184e-01	4.4966e+00
136	IHT000009	183.7628	186.8878	185.0713	6.1034e-01	4.4983e+00
137	IHT000010	186.7713	189.3104	188.0331	5.4421e-01	4.5106e+00
138	IHT000011	184.4614	186.8051	185.3871	4.8618e-01	4.4996e+00
139	IHT000012	180.8894	183.6238	182.1669	5.4277e-01	4.4865e+00
140	IHT000013	129.8265	132.5608	131.2210	5.1902e-01	4.3049e+00
141	IHT000014	180.8594	183.2031	181.9297	5.1181e-01	4.4855e+00
142	IHT000015	134.7168	136.8652	135.7207	5.4820e-01	4.3188e+00
143	IHT000016	125.2554	127.7945	126.2710	5.3087e-01	4.2900e+00
144	IHT000017	150.0376	152.5766	151.3618	5.7493e-01	4.3705e+00
145	IHT000018	151.9756	154.3194	153.0498	6.1542e-01	4.3763e+00
146	IHT000019	146.5257	149.2601	147.6820	5.9168e-01	4.3579e+00
147	IHT000020	150.1390	152.8733	151.3383	5.7725e-01	4.3704e+00
148	IHT000021	-3.1964	0.5146	-1.5596	7.3280e-01	4.1000e+00
149	IHT000022	129.6912	132.4256	130.8632	5.9320e-01	4.3038e+00
150	IHT000023	147.8215	150.3606	148.9894	5.7112e-01	4.3623e+00
151	IHT000024	112.6089	115.1480	113.6792	5.4852e-01	4.2547e+00
152	IHT000025	147.4685	150.2028	148.5934	5.9131e-01	4.3610e+00
153	IHT000026	149.0497	151.3935	149.9795	5.1984e-01	4.3657e+00
154	IHT000027	127.1146	129.4584	128.0249	5.6443e-01	4.2952e+00
155	IHT000028	128.8537	131.3927	130.2169	6.0681e-01	4.3018e+00

Test: Aug01_19

sum2

Date: Wed Aug 1 19:06:33 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	148.1595	150.5033	149.5932	5.6992e-01	4.3644e+00
157	IHT000030	150.9615	153.6959	152.4576	6.3700e-01	4.3743e+00
158	IHT000031	149.0723	151.2207	150.2402	5.8858e-01	4.3666e+00
159	IHT000032	150.8789	153.4180	152.0430	6.1884e-01	4.3728e+00
160	IHT000033	150.6836	153.2226	151.9922	6.2670e-01	4.3727e+00
161	IHT000034	132.7749	134.5327	133.6968	4.6695e-01	4.3125e+00
162	IHT000035	175.0676	177.2160	176.1534	5.0864e-01	4.4624e+00
163	IHT000036	131.0622	132.8200	132.0739	4.6470e-01	4.3075e+00

Velocity 1 = 0.010799 (ft/sec)
 Velocity 2 = 0.027400 (ft/sec)
 Pressure Drop = 0.001500 (psi)
 Tsat in = 0.028595 (deg F) Tsat out = 0.003403 (deg F)
 Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0173	0.0233
1	TRF000002	0.0103	0.0139
2	TFM000001	0.0052	0.0058
3	TIN000001	0.0658	0.0743
4	TRV000001	0.0169	0.0190
5	TSR000001	0.0451	0.0509
6	TAO020136	0.0403	0.0496
7	TAO050136	0.0059	0.0066
8	TAO070136	0.0239	0.0269
9	TAO080136	0.0387	0.0435
10	TAO090136	0.0466	0.0521
11	TAO100136	0.0180	0.0203
12	TAO105136	0.0229	0.0255
13	TAO110136	0.0314	0.0352
14	TAO115136	0.0077	0.0086
15	TAO120136	0.0008	0.0009
16	TAO125136	0.0196	0.0219
17	TAO130136	0.0090	0.0101
18	TAO120048	0.0722	0.0957
19	TAO130048	0.0137	0.0155
20	TAO120224	0.0225	0.0253
21	TAO130224	0.0349	0.0392
22	TAO120312	0.0131	0.0147
23	TAO130312	0.0016	0.0018
24	TRT020000	0.0517	0.0578
25	TRT070000	0.0205	0.0230
26	TRT100000	0.0328	0.0367
27	TRT120000	0.0028	0.0031
28	TRT125000	0.0404	0.0453
29	TRT130000	0.0377	0.0424
30	EMPTY	0.1015	0.2558
31	TAF050136	0.0206	0.0230
32	TAF070136	0.0215	0.0240
33	TAF080136	0.0109	0.0122
34	TAF090136	0.0024	0.0032
35	TAF100136	0.0194	0.0217
36	TAF105136	0.0319	0.0358
37	TAF110136	0.0311	0.0350
38	TAF115136	0.0128	0.0143
39	TAF120136	0.0278	0.0311
40	TAF125136	0.0134	0.0150
41	TAF130136	0.0166	0.0186
42	TAF120048	0.0619	0.0690
43	TAF130048	0.0132	0.0148
44	TAF120224	0.0089	0.0100
45	TAF130224	0.0215	0.0242

#	Name	Abs Diff	%Diff
46	EMPTY	0.0256	0.0671
47	EMPTY	0.0444	0.1131
48	TAI130048	0.0004	0.0005
49	TAI130136	0.0051	0.0058
50	TAI130224	0.0154	0.0171
51	TAI130312	0.0117	0.0131
52	TRR130000	0.0221	0.0252
53	TSI000001	0.0064	0.0079
54	TSI000002	0.0193	0.0251
55	TSO000001	0.0073	0.0095
56	TSO000002	0.0822	0.1070
57	TAF020136	0.0129	0.0146
58	TAF120312	0.0644	0.0724
59	TAF130312	0.0400	0.0452
60	EMPTY	0.0002	0.0375
61	EMPTY	0.0003	0.0548
62	EMPTY	0.0004	0.0714
63	EMPTY	0.0000	0.0000
64	EMPTY	0.0002	0.0546
65	EMPTY	0.0001	0.0259
66	EMPTY	0.0002	0.0494
67	EMPTY	0.0003	0.0710
68	EMPTY	0.0005	0.1147
69	EMPTY	0.0003	0.0660
70	EMPTY	0.0001	0.0212
71	EMPTY	0.0001	0.0202
72	EMPTY	0.0004	0.0787
73	EMPTY	0.0002	0.0378
74	EMPTY	0.0006	0.1099
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0006	0.1003
78	EMPTY	0.0000	0.0000
79	EMPTY	0.0001	0.0155
80	PAN020136	0.0037	0.5419
81	PAN050136	0.0194	3.5906
82	PAN070136	0.0119	4.5059
83	PAN080136	0.0220	69.1824
84	PAN090136	0.0059	1.1838
85	PAN100136	0.0066	0.4195
86	PAN105136	0.0567	98.2669
87	PAN110136	0.0093	3.5483
88	PAN115136	0.0009	0.3138
89	PAN120136	0.0055	0.7597
90	PAN125136	0.0008	0.1500
91	PAN130136	0.0037	4.3684
92	PAN120048	0.0168	1.7797
93	PAN130048	0.0188	2.4397
94	PAN120224	0.0010	0.0814
95	PAN130224	0.0130	2.6949
96	PAN120312	0.0247	10.3651
97	PAN130312	0.0007	0.1226
98	PAB000136	0.0130	0.0505
99	PAB100136	0.0131	0.0509
100	PAB125136	0.0015	0.0059

Test: Jul31_19

dif

Date: Tue Jul 31 11:56:04 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0029	0.0113
102	PRV000001	0.0073	0.0297
103	PSR000001	0.0001	0.0004
104	PFM000001	0.0367	0.1965
105	PAN000136	0.0413	1.7780
106	PFM000002	0.0920	0.5090
107	EMPTY	0.0003	6.0000
108	EMPTY	0.1959	2.6675
109	EMPTY	0.0001	2.2222
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0103	57.2222
113	VPW000002	0.0454	57.0352
114	VPW000003	0.0020	13.1579
115	VPW000004	0.0055	25.4630
116	VPW000005	0.0190	204.3011
117	VPW000006	0.0331	34.6960
118	IPW000001	0.0295	4.7558
119	IPW000002	0.2923	590.5050
120	IPW000003	0.2419	45.5555
121	IPW000004	0.0478	32.6280
122	IPW000005	0.0766	41.5401
123	IPW000006	0.1066	131.9307
124	EMPTY	0.0001	0.5181
125	EMPTY	0.0003	2.4194
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0001	0.6667
128	IHT000001	0.0114	64.4068
129	IHT000002	0.0005	4.1322
130	IHT000003	0.0038	47.5000
131	IHT000004	0.0132	28.3262
132	IHT000005	0.0102	33.4426
133	IHT000006	0.0027	30.3371
134	IHT000007	0.0085	69.1057
135	IHT000008	0.0014	4.8276
136	IHT000009	0.0040	2000.0000
137	IHT000010	0.0027	15.3409
138	IHT000011	0.0146	44.7853
139	IHT000012	0.0061	31.9372
140	IHT000013	0.0011	8.3333
141	IHT000014	0.0422	85.4251
142	IHT000015	0.0159	212.0000
143	IHT000016	0.0179	52.9586
144	IHT000017	0.0609	472.0930
145	IHT000018	0.0257	84.2623
146	IHT000019	0.0268	11.7906
147	IHT000020	0.0223	275.3087
148	IHT000021	0.0059	19.7324
149	IHT000022	0.0053	16.8790
150	IHT000023	0.0165	82.5000
151	IHT000024	0.0224	20.0358
152	IHT000025	0.0117	35.2410
153	IHT000026	0.0038	14.1791
154	IHT000027	0.0049	15.4574
155	IHT000028	0.0156	50.9804

Test: Jul31_19 dif Date: Tue Jul 31 11:56:04 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0344	104.5593
157	IHT000030	0.0273	70.3608
158	IHT000031	0.0415	64.4410
159	IHT000032	0.0303	104.1237
160	IHT000033	0.0224	61.0354
161	IHT000034	0.0120	52.8634
162	IHT000035	0.0539	79.8519
163	IHT000036	0.0451	115.9383

Velocity 1 = 11.9733 (ft/sec) (+/- 2.0238 %)
 Velocity 2 = 11.6034 (ft/sec) (+/- 1.7280 %)
 Pressure drop = 0.9212 (psi)
 Tsat in = 243.8582 (deg F) Tsat out = 241.8049 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10004.7588 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6437.8892 %)
 D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
 L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.6929	74.2448	2.1231e-01	1.9000e+00
1	TRF000002	73.9855	74.1978	74.0916	1.0725e-01	1.9000e+00
2	TFM000001	88.9418	89.6772	89.3112	1.7374e-01	1.9003e+00
3	TIN000001	88.1559	88.7875	88.4046	1.3745e-01	1.9002e+00
4	TRV000001	88.3057	89.1448	88.8260	2.0723e-01	1.9002e+00
5	TSR000001	88.2034	88.9377	88.5817	1.7606e-01	1.9002e+00
6	TAO020136	80.6882	81.8529	81.2601	2.4756e-01	1.9001e+00
7	TAO050136	88.5866	89.2165	88.8686	1.5203e-01	1.9002e+00
8	TAO070136	88.4059	89.3539	88.8652	2.0604e-01	1.9002e+00
9	TAO080136	88.2776	89.2216	88.8101	1.6116e-01	1.9002e+00
10	TAO090136	89.0625	89.6929	89.4115	1.8888e-01	1.9003e+00
11	TAO100136	88.3136	89.0485	88.7041	1.7258e-01	1.9002e+00
12	TAO105136	89.2422	90.2933	89.7806	2.2637e-01	1.9003e+00
13	TAO110136	88.6771	89.5141	89.1170	1.7439e-01	1.9002e+00
14	TAO115136	88.6437	89.8005	89.2789	2.5210e-01	1.9003e+00
15	TAO120136	88.4704	89.1015	88.7814	1.5466e-01	1.9002e+00
16	TAO125136	89.2089	89.8392	89.4784	1.3632e-01	1.9003e+00
17	TAO130136	88.4140	89.0421	88.7041	1.6414e-01	1.9002e+00
18	TAO120048	74.8761	75.5141	75.2117	1.6122e-01	1.9000e+00
19	TAO130048	88.2957	88.9261	88.5779	1.4932e-01	1.9002e+00
20	TAO120224	88.6181	89.3544	88.9087	1.7839e-01	1.9002e+00
21	TAO130224	88.5640	89.2953	88.9192	1.7567e-01	1.9002e+00
22	TAO120312	88.6034	89.4448	88.9865	1.6968e-01	1.9002e+00
23	TAO130312	88.4702	89.1007	88.7566	1.4088e-01	1.9002e+00
24	TRT020000	88.7737	89.8261	89.3001	2.3097e-01	1.9003e+00
25	TRT070000	88.7647	89.6080	89.1484	2.0179e-01	1.9002e+00
26	TRT100000	89.0212	89.7549	89.4528	1.7159e-01	1.9003e+00
27	TRT120000	88.7237	89.4584	89.1064	1.5269e-01	1.9002e+00
28	TRT125000	88.8094	89.4370	89.1359	1.6739e-01	1.9002e+00
29	TRT130000	88.6304	89.2609	88.9460	1.5306e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6562	1.9284e-01	1.9011e+00
31	TAF050136	89.1776	89.7021	89.4043	1.4267e-01	1.9003e+00
32	TAF070136	89.0618	90.2111	89.6939	2.4537e-01	1.9003e+00
33	TAF080136	88.9257	89.7606	89.2733	1.9644e-01	1.9003e+00
34	TAF090136	74.7894	76.0623	75.3832	2.8249e-01	1.9000e+00
35	TAF100136	88.6863	89.5280	89.1242	1.9521e-01	1.9002e+00
36	TAF105136	88.4717	89.6195	89.0893	2.4217e-01	1.9002e+00
37	TAF110136	88.6113	89.3467	88.9267	1.6957e-01	1.9002e+00
38	TAF115136	89.0029	90.0511	89.4597	2.1036e-01	1.9003e+00
39	TAF120136	88.9371	89.6703	89.2932	1.4858e-01	1.9003e+00
40	TAF125136	88.5966	89.8468	89.2737	2.7234e-01	1.9003e+00
41	TAF130136	88.8048	89.5405	89.1454	1.6230e-01	1.9002e+00
42	TAF120048	89.0859	90.0346	89.5161	2.3799e-01	1.9003e+00
43	TAF130048	88.7762	89.5122	89.1504	1.6437e-01	1.9002e+00
44	TAF120224	88.8712	89.6070	89.2077	1.8359e-01	1.9002e+00
45	TAF130224	88.4064	88.9335	88.6850	1.5314e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.2392e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1924	1.0374e-01	1.9010e+00
48	TAI130048	88.8767	90.0309	89.3978	3.0112e-01	1.9003e+00
49	TAI130136	88.2794	89.1168	88.7394	2.0414e-01	1.9002e+00
50	TAI130224	89.1240	90.3855	89.7676	3.0966e-01	1.9003e+00
51	TAI130312	88.5948	89.4360	89.0198	1.9110e-01	1.9002e+00
52	TRR130000	87.1343	88.1826	87.7340	2.5066e-01	1.9002e+00
53	TSI000001	80.7090	81.6599	81.2412	1.9307e-01	1.9001e+00
54	TSI000002	76.4256	77.5895	77.1155	2.3709e-01	1.9000e+00
55	TSO000001	76.3578	77.2091	76.7327	1.9130e-01	1.9000e+00
56	TSO000002	76.5807	77.5351	77.0987	2.1392e-01	1.9000e+00
57	TAF020136	88.0593	88.9036	88.5068	1.7902e-01	1.9002e+00
58	TAF120312	88.3236	89.2697	88.7903	2.2252e-01	1.9002e+00
59	TAF130312	88.1320	88.8667	88.4805	1.7305e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
61	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
62	EMPTY	0.5566	0.5615	0.5597	2.3941e-03	0.0000e+00
63	EMPTY	0.5713	0.5762	0.5752	1.9730e-03	0.0000e+00
64	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4050	1.1714e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4241	1.7115e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4386	1.8950e-03	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4557	2.3008e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4733	1.1714e-03	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5103	2.4662e-03	0.0000e+00
73	EMPTY	0.5273	0.5322	0.5318	1.3381e-03	0.0000e+00
74	EMPTY	0.5169	0.5469	0.5469	0.0000e+00	0.0000e+00
75	EMPTY	0.5615	0.5664	0.5653	2.0432e-03	0.0000e+00
76	EMPTY	0.5762	0.5811	0.5809	9.6655e-04	0.0000e+00
77	EMPTY	0.5957	0.6006	0.6004	9.6555e-04	0.0000e+00
78	EMPTY	0.6201	0.6250	0.6210	1.8950e-03	0.0000e+00
79	EMPTY	0.6396	0.6494	0.6456	2.2689e-03	0.0000e+00
80	PAN020136	3.5331	3.9146	3.6766	1.0750e-01	8.7005e-01
81	PAN050136	5.6947	6.3051	6.1006	1.4979e-01	1.6801e+00
82	PAN070136	3.7446	4.1261	3.9414	8.9995e-02	8.7006e-01
83	PAN080136	1.6375	1.8664	1.7764	7.3422e-02	8.7001e-01
84	PAN090136	2.3462	2.6514	2.4851	7.1785e-02	8.7002e-01
85	PAN100136	-0.1832	0.0456	-0.0566	8.6660e-02	8.7000e-01
86	PAN105136	0.7388	0.9677	0.8532	6.9362e-02	8.7000e-01
87	PAN110136	1.0235	1.3287	1.2112	6.9293e-02	8.7001e-01
88	PAN115136	1.1672	1.4724	1.3488	8.4269e-02	8.7001e-01
89	PAN120136	1.4534	1.7586	1.5831	7.1054e-02	8.7001e-01
90	PAN125136	1.4123	1.6412	1.5329	7.0786e-02	8.7001e-01
91	PAN130136	0.8004	1.0293	0.9102	6.5685e-02	8.7000e-01
92	PAN120048	0.6398	0.8687	0.7375	7.0702e-02	8.7000e-01
93	PAN130048	2.6734	2.9786	2.8183	7.7453e-02	8.7003e-01
94	PAN120224	0.2731	0.5783	0.4425	7.7514e-02	8.7000e-01
95	PAN130224	2.2876	2.5164	2.4020	6.7627e-02	8.7002e-01
96	PAN120312	1.9061	2.2876	2.0800	8.3063e-02	8.7002e-01
97	PAN130312	2.4372	2.7424	2.5730	8.0521e-02	8.7002e-01
98	PAB000136	26.6890	26.8263	26.7576	3.7281e-02	5.8384e-01
99	PAB100136	26.0490	26.1863	26.1250	4.3975e-02	5.8367e-01
100	PAB125136	25.7101	25.8932	25.8108	4.3378e-02	5.8358e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.5077	26.6297	26.5419	5.5366e-02	7.5293e-01
102	PRV000001	24.4677	24.5897	24.4701	1.7263e-02	7.5249e-01
103	PSR000001	25.3763	25.4983	25.4812	4.2787e-02	7.5270e-01
104	PFM000001	21.5765	22.3089	21.9171	1.7157e-01	5.0299e-01
105	PAN000136	24.1033	26.8499	25.5041	5.7317e-01	4.9204e+00
106	PFM000002	19.8279	21.1367	20.5736	3.1533e-01	2.0651e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-0.5957	-6.6372	3.1948e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0219	9.7377e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0405	9.6655e-02	8.1000e-01
114	VPW000003	-0.2817	0.1089	0.0112	1.0625e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0369	1.1732e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0337	1.2156e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0759	1.1161e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.4250	1.3294e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.1066	1.2522e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4530	1.1115e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1758	2.6118e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0965	2.6116e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0027	3.6924e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	3.5513e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.7971e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.3087e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0060	1.0440e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0074	7.3716e-02	4.1000e+00
130	IHT000003	-0.1991	0.5822	0.0119	1.0320e-01	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0075	1.0625e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0383	1.1161e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0146	1.0559e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0006	6.6498e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0173	9.8648e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	8.3612e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0287	9.2034e-02	4.1000e+00
139	IHT000012	-0.0864	0.3042	0.0230	1.0559e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0288	1.0145e-01	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0533	1.0440e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0042	6.1257e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0066	2.5842e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2351	1.1334e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0198	1.0992e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0221	1.0559e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0392	1.0470e-01	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0395	8.6541e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0922	9.6976e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0410	7.8523e-02	4.1000e+00
153	IHT000026	-0.1803	0.0150	0.0072	3.8662e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0278	7.8918e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0123	9.6735e-02	4.1000e+00

Test: Jul31_20

sum1

Date: Tue Jul 31 11:59:12 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.3493	-0.0101	9.9512e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	-0.0042	1.1443e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0215	1.0259e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	-0.0060	8.8233e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	-0.0063	7.2330e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0007	9.8648e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	1.1168e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	-0.0236	9.4702e-02	4.1000e+00

Test: Jul31_20

sum2

Date: Tue Jul 31 11:59:12 1990

Page: 1

Velocity 1 = 11.9661 (ft/sec) (+/- 2.0246 %)
Velocity 2 = 11.5178 (ft/sec) (+/- 1.7297 %)
Pressure drop = 0.9179 (psi)
Tsat in = 243.8013 (deg F) Tsat out = 241.7478 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2499.2378 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2437.5649 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.4796	74.2661	1.9481e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0764	1.3004e-01	1.9000e+00
2	TFM000001	88.9418	89.6760	89.2910	2.1030e-01	1.9003e+00
3	TIN000001	88.0506	88.7875	88.4076	1.5759e-01	1.9002e+00
4	TRV000001	88.5162	89.2482	88.8430	2.1002e-01	1.9002e+00
5	TSR000001	88.2034	89.0426	88.5958	1.7891e-01	1.9002e+00
6	TAO020136	80.7944	81.7468	81.2912	2.5491e-01	1.9001e+00
7	TAO050136	88.3778	89.2165	88.8424	1.8277e-01	1.9002e+00
8	TAO070136	88.4059	89.2485	88.8595	2.1841e-01	1.9002e+00
9	TAO080136	88.2782	89.1162	88.8231	1.7114e-01	1.9002e+00
10	TAO090136	88.9586	89.9021	89.3781	2.1302e-01	1.9003e+00
11	TAO100136	88.3136	89.0485	88.7121	1.6604e-01	1.9002e+00
12	TAO105136	89.3482	90.2933	89.7423	1.9605e-01	1.9003e+00
13	TAO110136	88.7831	89.5141	89.1112	1.6399e-01	1.9002e+00
14	TAO115136	88.6443	89.6952	89.2469	2.2679e-01	1.9002e+00
15	TAO120136	88.4698	88.9960	88.7835	1.5694e-01	1.9002e+00
16	TAO125136	89.2089	89.8392	89.4989	1.5088e-01	1.9003e+00
17	TAO130136	88.4140	89.0421	88.7501	1.8305e-01	1.9002e+00
18	TAO120048	74.7694	75.5134	75.1753	1.7173e-01	1.9000e+00
19	TAO130048	88.2957	88.8212	88.5730	1.4497e-01	1.9002e+00
20	TAO120224	88.6186	89.2490	88.8996	1.4611e-01	1.9002e+00
21	TAO130224	88.5645	89.2953	88.9052	1.5371e-01	1.9002e+00
22	TAO120312	88.6039	89.3399	88.9922	1.7333e-01	1.9002e+00
23	TAO130312	88.4708	89.1007	88.7475	1.3854e-01	1.9002e+00
24	TRT020000	88.9841	89.8261	89.3259	2.2275e-01	1.9003e+00
25	TRT070000	88.7652	89.3978	89.1670	1.6763e-01	1.9002e+00
26	TRT100000	88.9157	89.8591	89.4361	2.1902e-01	1.9003e+00
27	TRT120000	88.7237	89.3544	89.1249	1.4649e-01	1.9002e+00
28	TRT125000	88.7045	89.5418	89.1554	1.6978e-01	1.9002e+00
29	TRT130000	88.6304	89.2609	88.9546	1.5287e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6806	2.2169e-01	1.9011e+00
31	TAF050136	89.0722	89.7021	89.4217	1.6631e-01	1.9003e+00
32	TAF070136	89.2709	90.1081	89.6409	2.0029e-01	1.9003e+00
33	TAF080136	88.8208	89.6580	89.2210	1.8210e-01	1.9002e+00
34	TAF090136	74.8951	75.9557	75.4342	2.5479e-01	1.9000e+00
35	TAF100136	88.6869	89.5280	89.1653	1.7970e-01	1.9002e+00
36	TAF105136	88.5743	89.5142	89.0637	2.6146e-01	1.9002e+00
37	TAF110136	88.5079	89.8674	88.9140	2.2475e-01	1.9002e+00
38	TAF115136	88.8975	89.8409	89.4477	2.2580e-01	1.9003e+00
39	TAF120136	89.0405	89.4616	89.2835	1.1986e-01	1.9003e+00
40	TAF125136	88.7021	89.8496	89.3618	2.8744e-01	1.9003e+00
41	TAF130136	88.8048	89.4351	89.1503	1.5881e-01	1.9002e+00
42	TAF120048	89.0854	89.9292	89.5744	2.1905e-01	1.9003e+00
43	TAF130048	88.6723	89.5112	89.1731	1.8201e-01	1.9002e+00
44	TAF120224	88.8728	89.7108	89.1954	1.7505e-01	1.9002e+00
45	TAF130224	88.0907	88.9335	88.6348	1.8536e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1382	1.9245e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2402	1.1403e-01	1.9010e+00
48	TAI130048	88.8774	89.9267	89.4748	3.0369e-01	1.9003e+00
49	TAI130136	88.2775	89.1168	88.7510	2.1714e-01	1.9002e+00
50	TAI130224	89.3342	90.1755	89.7143	2.6951e-01	1.9003e+00
51	TAI130312	88.7002	89.4360	88.9878	1.7130e-01	1.9002e+00
52	TRR130000	87.2381	88.0784	87.6395	2.2916e-01	1.9002e+00
53	TSI000001	80.9271	81.5538	81.2800	1.6540e-01	1.9001e+00
54	TSI000002	76.4267	77.4836	77.0392	2.9263e-01	1.9000e+00
55	TSO000001	76.4647	77.2091	76.8076	1.6283e-01	1.9000e+00
56	TSO000002	76.6872	77.4297	77.1201	2.2170e-01	1.9000e+00
57	TAF020136	88.1643	88.7987	88.5160	1.7806e-01	1.9002e+00
58	TAF120312	88.1138	89.2690	88.7849	2.8079e-01	1.9002e+00
59	TAF130312	88.2360	88.8667	88.4833	1.6400e-01	1.9002e+00
60	EMPTY	0.5273	0.5322	0.5319	1.1827e-03	0.0000e+00
61	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
62	EMPTY	0.5566	0.5615	0.5576	1.9883e-03	0.0000e+00
63	EMPTY	0.5713	0.5762	0.5737	2.4662e-03	0.0000e+00
64	EMPTY	0.3613	0.3662	0.3660	9.7615e-04	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3860	1.1827e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4046	1.7263e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4243	1.4934e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4382	2.1781e-03	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4554	2.1781e-03	0.0000e+00
70	EMPTY	0.4688	0.4883	0.4735	2.5391e-03	0.0000e+00
71	EMPTY	0.4883	0.4980	0.4958	2.6562e-03	0.0000e+00
72	EMPTY	0.5029	0.5176	0.5094	2.7091e-03	0.0000e+00
73	EMPTY	0.5273	0.5322	0.5307	2.2737e-03	0.0000e+00
74	EMPTY	0.5420	0.5469	0.5468	6.9754e-04	0.0000e+00
75	EMPTY	0.5615	0.5664	0.5646	2.3783e-03	0.0000e+00
76	EMPTY	0.5713	0.5811	0.5802	2.3740e-03	0.0000e+00
77	EMPTY	0.5957	0.6006	0.6004	9.7615e-04	0.0000e+00
78	EMPTY	0.6201	0.6250	0.6208	1.7263e-03	0.0000e+00
79	EMPTY	0.6396	0.6494	0.6450	1.7954e-03	0.0000e+00
80	PAN020136	3.3806	3.9909	3.6624	1.2671e-01	8.7005e-01
81	PAN050136	5.6947	6.3051	6.0248	1.6288e-01	1.6801e+00
82	PAN070136	3.6683	4.1261	3.9299	1.1012e-01	8.7006e-01
83	PAN080136	1.6375	1.9427	1.7808	8.1865e-02	8.7001e-01
84	PAN090136	2.2699	2.6514	2.4708	9.0398e-02	8.7002e-01
85	PAN100136	-0.2595	0.1219	-0.0867	9.3149e-02	8.7000e-01
86	PAN105136	0.6625	0.9677	0.8509	7.8026e-02	8.7000e-01
87	PAN110136	1.0235	1.4050	1.2088	8.5299e-02	8.7001e-01
88	PAN115136	1.1672	1.5487	1.3431	9.9967e-02	8.7001e-01
89	PAN120136	1.4534	1.7586	1.5748	6.4057e-02	8.7001e-01
90	PAN125136	1.3360	1.6412	1.5307	7.9503e-02	8.7001e-01
91	PAN130136	0.7241	1.0293	0.9062	8.0646e-02	8.7000e-01
92	PAN120048	0.6398	0.9450	0.7364	6.7481e-02	8.7000e-01
93	PAN130048	2.5971	2.9786	2.8213	8.3005e-02	8.7003e-01
94	PAN120224	0.2731	0.6546	0.4444	7.5544e-02	8.7000e-01
95	PAN130224	2.2876	2.5164	2.3919	6.5508e-02	8.7002e-01
96	PAN120312	1.9061	2.2113	2.0727	8.6251e-02	8.7002e-01
97	PAN130312	2.4372	2.6661	2.5509	7.4886e-02	8.7002e-01
98	PAB000136	26.5974	26.8263	26.7310	4.2653e-02	5.8384e-01
99	PAB100136	26.0490	26.1863	26.1032	4.0378e-02	5.8366e-01
100	PAB125136	25.7101	25.8474	25.7848	4.1467e-02	5.8357e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	26.3856	26.6297	26.4952	5.1338e-02	7.5292e-01
102	PRV000001	24.4677	24.5897	24.4702	1.7439e-02	7.5249e-01
103	PSR000001	25.3763	25.4983	25.4435	6.1346e-02	7.5269e-01
104	PFM000001	21.5765	22.2174	21.8904	1.3985e-01	5.0299e-01
105	PAN000136	24.1033	26.8499	25.4112	6.4738e-01	4.9204e+00
106	PFM000002	18.0828	21.0025	20.2686	6.4401e-01	2.0632e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9754e-04	0.0000e+00
108	EMPTY	-10.0000	0.7373	-7.0667	3.4395e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0043	1.8997e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0595	9.6150e-02	8.1000e-01
113	VPW000002	-0.0376	0.3530	0.0382	1.0409e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0292	1.1219e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0127	8.8965e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0575	9.9629e-02	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0623	1.2028e-01	8.1000e-01
118	IPW000001	-3.7920	2.0650	0.4712	1.2395e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.1631	1.4936e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3352	1.0893e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2142	2.3179e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1078	2.7013e-01	2.0000e+00
123	IPW000006	-1.0423	0.9109	-0.0059	3.8126e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.6801e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.8548e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	3.2375e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	3.4497e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0107	1.0548e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0126	8.5810e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0002	8.4477e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0215	1.0548e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0447	1.0315e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0004	1.1059e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0208	8.6187e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0225	9.2540e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0082	1.0092e-01	4.1000e+00
137	IHT000010	-0.2442	0.1465	0.0309	1.0486e-01	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0300	1.0076e-01	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0252	9.7656e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0063	9.1482e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0876	1.1462e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0005	6.8582e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0438	9.8153e-02	4.1000e+00
144	IHT000017	-0.2629	0.5183	0.0480	2.6720e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0008	1.1219e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2363	1.1419e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0064	1.1960e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0318	1.1362e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0381	9.7656e-02	4.1000e+00
150	IHT000023	-0.2066	0.3793	0.0166	9.7656e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.1013	1.0076e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0329	7.8092e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0230	6.8582e-02	4.1000e+00
154	IHT000027	-0.2066	0.3793	0.0286	9.7490e-02	4.1000e+00
155	IHT000028	-0.1803	0.4056	0.0071	1.2582e-01	4.1000e+00

Test: Jul31_20

sum2

Date: Tue Jul 31 11:59:12 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.3493	0.0225	1.1546e-01	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0274	9.1305e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0628	1.1960e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0307	1.1146e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0302	1.0204e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0148	9.3412e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0455	1.1755e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0217	1.1219e-01	4.1000e+00

Test: Jul31_20 dif Date: Tue Jul 31 11:59:12 1990 Page: 1

Velocity 1 = 0.007200 (ft/sec)

Velocity 2 = 0.085600 (ft/sec)

Pressure Drop = 0.003300 (psi)

Tsat in = 0.056900 (deg F) Tsat out = 0.057098 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0213	0.0287
1	TRF000002	0.0152	0.0205
2	TFM000001	0.0202	0.0226
3	TIN000001	0.0030	0.0034
4	TRV000001	0.0170	0.0191
5	TSR000001	0.0141	0.0159
6	TAO020136	0.0311	0.0383
7	TAO050136	0.0262	0.0295
8	TAO070136	0.0057	0.0064
9	TAO080136	0.0130	0.0146
10	TAO090136	0.0334	0.0374
11	TAO100136	0.0080	0.0090
12	TAO105136	0.0383	0.0427
13	TAO110136	0.0058	0.0065
14	TAO115136	0.0320	0.0358
15	TAO120136	0.0021	0.0024
16	TAO125136	0.0205	0.0229
17	TAO130136	0.0460	0.0519
18	TAO120048	0.0364	0.0484
19	TAO130048	0.0049	0.0055
20	TAO120224	0.0091	0.0102
21	TAO130224	0.0140	0.0157
22	TAO120312	0.0057	0.0064
23	TAO130312	0.0091	0.0103
24	TRT020000	0.0258	0.0289
25	TRT070000	0.0186	0.0209
26	TRT100000	0.0167	0.0187
27	TRT120000	0.0185	0.0208
28	TRT125000	0.0195	0.0219
29	TRT130000	0.0086	0.0097
30	EMPTY	0.0244	0.0615
31	TAF050136	0.0174	0.0195
32	TAF070136	0.0530	0.0591
33	TAF080136	0.0523	0.0586
34	TAF090136	0.0510	0.0676
35	TAF100136	0.0411	0.0461
36	TAF105136	0.0256	0.0287
37	TAF110136	0.0127	0.0143
38	TAF115136	0.0120	0.0134
39	TAF120136	0.0097	0.0109
40	TAF125136	0.0881	0.0987
41	TAF130136	0.0049	0.0055
42	TAF120048	0.0583	0.0651
43	TAF130048	0.0227	0.0255
44	TAF120224	0.0123	0.0138
45	TAF130224	0.0502	0.0566

#	Name	Abs Diff	%Diff
46	EMPTY	0.0304	0.0798
47	EMPTY	0.0478	0.1220
48	TAI130048	0.0770	0.0861
49	TAI130136	0.0116	0.0131
50	TAI130224	0.0533	0.0594
51	TAI130312	0.0320	0.0359
52	TRR130000	0.0945	0.1077
53	TSI000001	0.0388	0.0478
54	TSI000002	0.0763	0.0989
55	TSO000001	0.0749	0.0976
56	TSO000002	0.0214	0.0278
57	TAF020136	0.0092	0.0104
58	TAF120312	0.0054	0.0061
59	TAF130312	0.0028	0.0032
60	EMPTY	0.0005	0.0939
61	EMPTY	0.0000	0.0000
62	EMPTY	0.0021	0.3752
63	EMPTY	0.0015	0.2608
64	EMPTY	0.0002	0.0546
65	EMPTY	0.0002	0.0518
66	EMPTY	0.0004	0.0988
67	EMPTY	0.0002	0.0472
68	EMPTY	0.0004	0.0912
69	EMPTY	0.0003	0.0658
70	EMPTY	0.0002	0.0423
71	EMPTY	0.0006	0.1209
72	EMPTY	0.0009	0.1764
73	EMPTY	0.0011	0.2068
74	EMPTY	0.0001	0.0183
75	EMPTY	0.0007	0.1238
76	EMPTY	0.0007	0.1205
77	EMPTY	0.0000	0.0000
78	EMPTY	0.0002	0.0322
79	EMPTY	0.0006	0.0929
80	PAN020136	0.0142	0.3862
81	PAN050136	0.0758	1.2425
82	PAN070136	0.0115	0.2918
83	PAN080136	0.0044	0.2477
84	PAN090136	0.0143	0.5754
85	PAN100136	0.0301	53.1802
86	PAN105136	0.0023	0.2696
87	PAN110136	0.0024	0.1982
88	PAN115136	0.0057	0.4226
89	PAN120136	0.0083	0.5243
90	PAN125136	0.0022	0.1435
91	PAN130136	0.0040	0.4395
92	PAN120048	0.0011	0.1492
93	PAN130048	0.0030	0.1064
94	PAN120224	0.0019	0.4294
95	PAN130224	0.0101	0.4205
96	PAN120312	0.0073	0.3510
97	PAN130312	0.0221	0.8589
98	PAB000136	0.0266	0.0994
99	PAB100136	0.0218	0.0834
100	PAB125136	0.0260	0.1007

Test: Jul31_20

dif

Date: Tue Jul 31 11:59:12 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0467	0.1760
102	PRV000001	0.0001	0.0004
103	PSR000001	0.0377	0.1479
104	PFM000001	0.0267	0.1218
105	PAN000136	0.0929	0.3643
106	PFM000002	0.3050	1.4825
107	EMPTY	0.0001	2.0408
108	EMPTY	0.4295	6.4711
109	EMPTY	0.0003	6.5217
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0001	100.0000
112	VPW000001	0.0376	171.6895
113	VPW000002	0.0023	5.6790
114	VPW000003	0.0180	160.7143
115	VPW000004	0.0242	65.5827
116	VPW000005	0.0238	70.6231
117	VPW000006	0.0136	17.9183
118	IPW000001	0.0462	10.8706
119	IPW000002	0.0565	53.0019
120	IPW000003	0.1178	26.0044
121	IPW000004	0.0384	21.8430
122	IPW000005	0.0113	11.7098
123	IPW000006	0.0086	318.5185
124	EMPTY	0.0008	4.1451
125	EMPTY	0.0001	0.7519
126	EMPTY	0.0002	1.2422
127	EMPTY	0.0005	3.1056
128	IHT000001	0.0167	278.3333
129	IHT000002	0.0200	270.2703
130	IHT000003	0.0117	98.3193
131	IHT000004	0.0140	186.6667
132	IHT000005	0.0064	16.7102
133	IHT000006	0.0142	97.2603
134	IHT000007	0.0202	3366.6665
135	IHT000008	0.0052	30.0578
136	IHT000009	0.0159	206.4935
137	IHT000010	0.0133	75.5682
138	IHT000011	0.0013	4.5296
139	IHT000012	0.0022	9.5652
140	IHT000013	0.0225	78.1250
141	IHT000014	0.0343	64.3527
142	IHT000015	0.0037	88.0952
143	IHT000016	0.0139	46.4883
144	IHT000017	0.0414	627.2728
145	IHT000018	0.0219	96.4758
146	IHT000019	0.0012	0.5104
147	IHT000020	0.0134	67.6768
148	IHT000021	0.0097	43.8914
149	IHT000022	0.0011	2.8061
150	IHT000023	0.0229	57.9747
151	IHT000024	0.0091	9.8698
152	IHT000025	0.0081	19.7561
153	IHT000026	0.0158	219.4444
154	IHT000027	0.0008	2.8777
155	IHT000028	0.0194	157.7236

Test: Jul31_20 dif Date: Tue Jul 31 11:59:12 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0326	322.7723
157	IHT000030	0.0316	752.3809
158	IHT000031	0.0413	192.0930
159	IHT000032	0.0367	611.6666
160	IHT000033	0.0365	579.3651
161	IHT000034	0.0155	2214.2859
162	IHT000035	0.0444	4036.3635
163	IHT000036	0.0453	191.9491

Test: Jul31_21

sum1

Date: Tue Jul 31 12:02:09 1990

Page: 1

Velocity 1 = 13.0006 (ft/sec) (+/- 1.9309 %)
Velocity 2 = 12.4843 (ft/sec) (+/- 1.7138 %)
Pressure drop = 1.9295 (psi)
Tsat in = 246.0649 (deg F) Tsat out = 242.0142 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3590.3186 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4078.2810 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.0527	74.4796	74.3088	1.6698e-01	1.9000e+00
1	TRF0000002	73.7731	74.4101	74.0916	1.2322e-01	1.9000e+00
2	TFM0000001	88.8369	89.4669	89.1752	1.6727e-01	1.9002e+00
3	TIN0000001	87.9463	88.5773	88.2723	1.4915e-01	1.9002e+00
4	TRV0000001	88.2037	89.1448	88.7490	2.1391e-01	1.9002e+00
5	TSR0000001	88.3089	89.0426	88.6677	1.5996e-01	1.9002e+00
6	TAO020136	80.9005	81.9582	81.4231	2.3560e-01	1.9001e+00
7	TAO050136	88.3783	89.1111	88.7458	1.7093e-01	1.9002e+00
8	TAO070136	88.1956	89.1436	88.7536	2.1200e-01	1.9002e+00
9	TAO080136	88.2782	88.9076	88.6206	1.7164e-01	1.9002e+00
10	TAO090136	88.9586	89.6929	89.2841	1.7617e-01	1.9003e+00
11	TAO100136	88.2086	88.8390	88.6016	1.4042e-01	1.9002e+00
12	TAO105136	89.1375	90.0833	89.5812	2.0174e-01	1.9003e+00
13	TAO110136	88.6777	89.3062	89.0239	1.5998e-01	1.9002e+00
14	TAO115136	88.6443	89.5898	89.1635	2.4336e-01	1.9002e+00
15	TAO120136	88.1555	88.7862	88.6368	1.3285e-01	1.9002e+00
16	TAO125136	89.1050	89.6300	89.4179	1.5507e-01	1.9003e+00
17	TAO130136	88.3127	88.9372	88.5910	1.7196e-01	1.9002e+00
18	TAO120048	75.1942	75.7254	75.4642	1.3610e-01	1.9000e+00
19	TAO130048	88.0871	88.7171	88.4841	1.5329e-01	1.9002e+00
20	TAO120224	88.5139	89.0393	88.8019	1.4678e-01	1.9002e+00
21	TAO130224	88.4591	89.2927	88.8594	1.6443e-01	1.9002e+00
22	TAO120312	88.3937	89.2347	88.8500	1.8351e-01	1.9002e+00
23	TAO130312	88.2615	88.8915	88.6501	1.4880e-01	1.9002e+00
24	TRT020000	88.7741	89.6157	89.2644	2.0898e-01	1.9002e+00
25	TRT070000	88.6589	89.3970	89.0407	1.4733e-01	1.9002e+00
26	TRT100000	88.9169	89.7549	89.3172	1.8532e-01	1.9003e+00
27	TRT120000	88.7243	89.3544	89.0375	1.4309e-01	1.9002e+00
28	TRT125000	88.7059	89.3335	89.0509	1.6800e-01	1.9002e+00
29	TRT130000	88.5265	89.0517	88.8856	1.3270e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.9978e-01	1.9011e+00
31	TAF050136	88.8653	89.7021	89.2688	1.6261e-01	1.9003e+00
32	TAF070136	89.0624	90.1081	89.5713	2.2245e-01	1.9003e+00
33	TAF080136	88.7182	89.4500	89.1552	1.6466e-01	1.9002e+00
34	TAF090136	74.8951	76.1674	75.6142	2.9985e-01	1.9000e+00
35	TAF100136	88.6869	89.3178	89.0296	1.6704e-01	1.9002e+00
36	TAF105136	88.3690	89.4116	88.9087	2.4630e-01	1.9002e+00
37	TAF110136	88.4029	89.0325	88.7788	1.4834e-01	1.9002e+00
38	TAF115136	88.8980	89.7367	89.3282	1.9301e-01	1.9003e+00
39	TAF120136	88.8322	89.4616	89.1411	1.2622e-01	1.9002e+00
40	TAF125136	88.8052	89.6417	89.2097	2.2951e-01	1.9002e+00
41	TAF130136	88.5961	89.4351	89.0432	1.6383e-01	1.9002e+00
42	TAF120048	89.0854	89.9292	89.4802	2.1910e-01	1.9003e+00
43	TAF130048	88.5674	89.4067	89.0271	1.8221e-01	1.9002e+00
44	TAF120224	88.5580	89.5016	89.1305	2.0116e-01	1.9002e+00
45	TAF130224	88.1962	88.9335	88.5565	1.5206e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1353	2.2276e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2062	1.2107e-01	1.9010e+00
48	TAI130048	88.7725	89.9267	89.3414	2.4437e-01	1.9003e+00
49	TAI130136	88.0689	89.0119	88.6080	2.1061e-01	1.9002e+00
50	TAI130224	89.1246	90.0701	89.5596	2.4672e-01	1.9003e+00
51	TAI130312	88.4902	89.2260	88.8750	1.9526e-01	1.9002e+00
52	TRR130000	87.1343	88.0784	87.6527	2.2752e-01	1.9002e+00
53	TSI000001	81.0256	81.6587	81.3825	1.5939e-01	1.9001e+00
54	TSI000002	76.8485	77.8005	77.2573	2.7436e-01	1.9000e+00
55	TSO000001	76.3587	77.4217	77.0199	1.9247e-01	1.9000e+00
56	TSO000002	76.8991	77.8532	77.3975	1.9771e-01	1.9000e+00
57	TAF020136	88.0593	88.7978	88.4201	1.6930e-01	1.9002e+00
58	TAF120312	88.2193	89.1642	88.6668	2.8260e-01	1.9002e+00
59	TAF130312	87.9224	88.6573	88.3739	1.7135e-01	1.9002e+00
60	EMPTY	0.5273	0.5322	0.5287	2.2146e-03	0.0000e+00
61	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
62	EMPTY	0.5518	0.5615	0.5559	2.0598e-03	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5710	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3662	0.3657	1.7784e-03	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3860	1.1714e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4049	1.3381e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4245	1.1714e-03	0.0000e+00
68	EMPTY	0.4346	0.4443	0.4388	1.9754e-03	0.0000e+00
69	EMPTY	0.4541	0.4688	0.4572	2.9197e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4972	1.8950e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5124	1.1714e-03	0.0000e+00
73	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
74	EMPTY	0.5469	0.5518	0.5472	1.1714e-03	0.0000e+00
75	EMPTY	0.5615	0.5713	0.5665	1.2041e-03	0.0000e+00
76	EMPTY	0.5713	0.5859	0.5812	1.8429e-03	0.0000e+00
77	EMPTY	0.6000	0.6055	0.6009	1.1714e-03	0.0000e+00
78	EMPTY	0.6201	0.6299	0.6250	9.8648e-04	0.0000e+00
79	EMPTY	0.6494	0.6494	0.6494	0.0000e+00	0.0000e+00
80	PAN020136	6.9664	8.1871	7.3967	2.5596e-01	8.7020e-01
81	PAN050136	11.9508	13.1715	12.6008	2.8053e-01	1.6803e+00
82	PAN070136	8.0933	8.7037	8.3604	1.5278e-01	8.7025e-01
83	PAN080136	3.8500	4.2315	4.0377	8.7479e-02	8.7006e-01
84	PAN090136	4.5587	5.1691	4.7815	1.2219e-01	8.7008e-01
85	PAN100136	1.4952	1.9530	1.7058	1.1175e-01	8.7001e-01
86	PAN105136	1.7306	2.0358	1.9107	7.6698e-02	8.7001e-01
87	PAN110136	2.1679	2.5494	2.3663	8.0092e-02	8.7002e-01
88	PAN115136	2.3879	2.6931	2.5481	8.0462e-02	8.7002e-01
89	PAN120136	2.5215	2.9030	2.7184	8.0225e-02	8.7003e-01
90	PAN125136	2.5567	2.8619	2.7185	7.6512e-02	8.7003e-01
91	PAN130136	1.7922	2.0974	1.9204	7.4625e-02	8.7001e-01
92	PAN120048	2.6998	3.2338	2.8859	9.8888e-02	8.7003e-01
93	PAN130048	4.7333	5.3437	5.1117	1.0450e-01	8.7009e-01
94	PAN120224	2.1805	2.6382	2.3636	9.2482e-02	8.7002e-01
95	PAN130224	4.4238	4.8053	4.6023	9.0679e-02	8.7008e-01
96	PAN120312	3.9660	4.5001	4.3154	1.2531e-01	8.7007e-01
97	PAN130312	4.5735	5.1075	4.8390	1.0367e-01	8.7008e-01
98	PAB000136	27.6045	27.9707	27.8077	7.6911e-02	5.8415e-01
99	PAB100136	26.3236	26.5525	26.4390	5.2512e-02	5.8375e-01
100	PAB125136	25.8016	25.9847	25.9060	4.3417e-02	5.8360e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	27.4842	27.8504	27.6234	9.5547e-02	7.5317e-01
102	PRV0000001	24.3456	24.4677	24.4652	1.7263e-02	7.5249e-01
103	PSR0000001	25.3763	25.4983	25.4153	5.7521e-02	7.5269e-01
104	PFM0000001	25.5133	26.2457	25.8722	1.8574e-01	5.0417e-01
105	PAN000136	49.2803	56.6046	53.4185	1.3902e+00	4.9218e+00
106	PFM0000002	22.5798	24.5934	23.8436	4.3664e-01	2.0869e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	0.3516	-7.3113	3.0974e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0045	1.6624e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	-0.0601	0.1352	0.0337	9.8569e-02	8.1000e-01
113	VPW0000002	-0.2329	0.1577	0.0523	1.0595e-01	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0308	1.1161e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0337	9.2456e-02	8.1000e-01
117	VPW0000006	-0.2366	0.3493	0.0563	1.2001e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.7765	1.0881e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.0676	1.2466e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.2190	1.4117e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1953	2.0337e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1160	2.5513e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.1003	3.5030e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0188	3.1211e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0155	3.5141e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	3.2434e-03	0.0000e+00
128	IHT0000001	-0.3456	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0004	9.1779e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0080	7.2866e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0075	1.0625e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0305	1.1272e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	-0.0028	9.5765e-02	4.1000e+00
134	IHT0000007	-0.2104	0.3756	0.0279	9.8963e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0158	8.1347e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0097	9.0412e-02	4.1000e+00
138	IHT0000011	-0.2291	0.1615	0.0092	9.8963e-02	4.1000e+00
139	IHT0000012	-0.2817	0.1089	-0.0083	1.0440e-01	4.1000e+00
140	IHT0000013	-0.1578	0.0376	-0.0249	9.2034e-02	4.1000e+00
141	IHT0000014	-0.0639	0.1314	0.0533	9.6655e-02	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0036	4.8166e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0418	2.6517e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.2234	1.0106e-01	4.1000e+00
147	IHT0000020	-0.1052	0.0902	0.0159	9.5765e-02	4.1000e+00
148	IHT0000021	-0.0638	0.1315	0.0143	9.6655e-02	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0236	9.4702e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
151	IHT0000024	0.0376	0.2329	0.1040	9.3461e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0449	4.8166e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0111	4.8166e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0356	9.3043e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0045	1.2001e-01	4.1000e+00

Test: Jul31_21

sum1

Date: Tue Jul 31 12:02:09 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	-0.0120	1.1334e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0254	1.2409e-01	4.1000e+00
159	IHT000032	-0.2404	0.3455	-0.0099	9.4125e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	-0.0024	9.4125e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0203	9.6655e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0037	9.8648e-02	4.1000e+00

Velocity 1 = 12.9810 (ft/sec) (+/- 1.9323 %)
Velocity 2 = 12.4686 (ft/sec) (+/- 1.7140 %)
Pressure drop = 1.9268 (psi)
Tsat in = 246.2008 (deg F) Tsat out = 242.1479 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4468.2524 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 3192.7844 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	73.8393	74.6929	74.2835	1.7874e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.0894	1.4456e-01	1.9000e+00
2	TFM000001	88.7320	89.4676	89.1563	1.5729e-01	1.9002e+00
3	TIN000001	87.9463	88.5773	88.2552	1.3988e-01	1.9002e+00
4	TRV000001	88.3063	89.2497	88.7174	2.0935e-01	1.9002e+00
5	TSR000001	88.4130	88.9392	88.6919	1.3812e-01	1.9002e+00
6	TAO020136	80.7944	81.8523	81.4143	2.4247e-01	1.9001e+00
7	TAO050136	88.4827	89.1133	88.7254	1.7137e-01	1.9002e+00
8	TAO070136	88.0903	89.0379	88.7155	2.1540e-01	1.9002e+00
9	TAO080136	88.1750	88.9076	88.6295	1.8086e-01	1.9002e+00
10	TAO090136	88.8537	89.6929	89.2607	1.7870e-01	1.9002e+00
11	TAO100136	88.3130	88.8390	88.5560	1.4584e-01	1.9002e+00
12	TAO105136	89.1370	89.9787	89.5816	2.2423e-01	1.9003e+00
13	TAO110136	88.6777	89.4116	89.0117	1.8579e-01	1.9002e+00
14	TAO115136	88.7497	89.5900	89.1462	2.0039e-01	1.9002e+00
15	TAO120136	88.3654	88.8917	88.6401	1.2306e-01	1.9002e+00
16	TAO125136	89.0001	89.7348	89.3686	1.6884e-01	1.9003e+00
17	TAO130136	88.2077	88.9402	88.5457	1.7214e-01	1.9002e+00
18	TAO120048	75.1942	75.8315	75.5151	1.5712e-01	1.9000e+00
19	TAO130048	88.1916	88.8220	88.4387	1.6251e-01	1.9002e+00
20	TAO120224	88.5139	89.1448	88.7906	1.6707e-01	1.9002e+00
21	TAO130224	88.3562	89.1930	88.8270	1.8131e-01	1.9002e+00
22	TAO120312	88.4987	89.3402	88.8528	1.8790e-01	1.9002e+00
23	TAO130312	88.3664	88.9970	88.6515	1.6597e-01	1.9002e+00
24	TRT020000	88.8797	89.5109	89.2250	1.5780e-01	1.9002e+00
25	TRT070000	88.7644	89.2913	89.0140	1.2286e-01	1.9002e+00
26	TRT100000	88.9175	89.7549	89.2847	2.0308e-01	1.9003e+00
27	TRT120000	88.7243	89.3544	89.0160	1.3783e-01	1.9002e+00
28	TRT125000	88.6004	89.3335	89.0428	1.7524e-01	1.9002e+00
29	TRT130000	88.5260	89.2609	88.8842	1.5148e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6056	2.1472e-01	1.9011e+00
31	TAF050136	88.7593	89.5967	89.2790	1.6291e-01	1.9003e+00
32	TAF070136	89.0624	89.8998	89.5113	2.2782e-01	1.9003e+00
33	TAF080136	88.6132	89.3474	89.1087	1.3664e-01	1.9002e+00
34	TAF090136	75.3188	76.1674	75.6957	2.6049e-01	1.9000e+00
35	TAF100136	88.5809	89.4227	88.9787	1.8875e-01	1.9002e+00
36	TAF105136	88.4717	89.4116	88.8664	2.4763e-01	1.9002e+00
37	TAF110136	88.4029	89.1379	88.7671	1.6457e-01	1.9002e+00
38	TAF115136	88.6888	89.7367	89.3646	2.1704e-01	1.9003e+00
39	TAF120136	88.8322	89.3583	89.1153	1.3600e-01	1.9002e+00
40	TAF125136	88.5971	89.7443	89.2113	2.9440e-01	1.9002e+00
41	TAF130136	88.5961	89.3314	89.0116	1.7396e-01	1.9002e+00
42	TAF120048	88.8756	89.9292	89.4215	2.1056e-01	1.9003e+00
43	TAF130048	88.6723	89.4067	89.0129	1.5523e-01	1.9002e+00
44	TAF120224	88.7674	89.5016	89.1036	1.9508e-01	1.9002e+00
45	TAF130224	88.0912	88.9335	88.5252	1.9654e-01	1.9002e+00

Test: Jul31_21

sum2

Date: Tue Jul 31 12:02:09 1990

Page: 2

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1241	1.5609e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2261	1.1044e-01	1.9010e+00
48	TAI130048	88.5632	89.9267	89.2545	2.9037e-01	1.9002e+00
49	TAI130136	88.1739	88.9079	88.5869	1.6349e-01	1.9002e+00
50	TAI130224	88.9142	90.2808	89.5835	3.1288e-01	1.9003e+00
51	TAI130312	88.3852	89.2260	88.8571	2.0134e-01	1.9002e+00
52	TRR130000	87.0293	88.2876	87.6204	2.5022e-01	1.9002e+00
53	TSI000001	81.0256	81.6599	81.3467	1.5545e-01	1.9001e+00
54	TSI000002	76.7426	77.8005	77.2611	2.7990e-01	1.9000e+00
55	TSO000001	76.6775	77.4217	77.0138	1.7541e-01	1.9000e+00
56	TSO000002	76.7931	77.7479	77.2952	2.1068e-01	1.9000e+00
57	TAF020136	87.9535	88.7978	88.3801	2.1529e-01	1.9002e+00
58	TAF120312	88.2188	89.1642	88.6416	2.5561e-01	1.9002e+00
59	TAF130312	87.9224	88.7628	88.3231	1.8893e-01	1.9002e+00
60	EMPTY	0.5273	0.5322	0.5286	2.1781e-03	0.0000e+00
61	EMPTY	0.5420	0.5469	0.5422	9.7615e-04	0.0000e+00
62	EMPTY	0.5518	0.5566	0.5557	1.9103e-03	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5712	6.9754e-04	0.0000e+00
64	EMPTY	0.3613	0.3662	0.3660	9.7615e-04	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3864	1.7263e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4049	1.3508e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4243	1.4934e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4393	9.7615e-04	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4580	1.9883e-03	0.0000e+00
70	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4978	9.7615e-04	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5122	1.4934e-03	0.0000e+00
73	EMPTY	0.5322	0.5371	0.5323	6.9754e-04	0.0000e+00
74	EMPTY	0.5420	0.5518	0.5471	1.3951e-03	0.0000e+00
75	EMPTY	0.5664	0.5664	0.5664	0.0000e+00	0.0000e+00
76	EMPTY	0.5811	0.5859	0.5812	6.9754e-04	0.0000e+00
77	EMPTY	0.6006	0.6055	0.6013	1.7263e-03	0.0000e+00
78	EMPTY	0.6250	0.6299	0.6253	1.1827e-03	0.0000e+00
79	EMPTY	0.6445	0.6494	0.6491	1.1827e-03	0.0000e+00
80	PAN020136	6.8138	8.1871	7.4522	3.4392e-01	8.7020e-01
81	PAN050136	11.9508	13.3241	12.5830	3.6189e-01	1.6803e+00
82	PAN070136	8.0170	8.7037	8.3425	1.9059e-01	8.7025e-01
83	PAN080136	3.8500	4.2315	4.0198	8.7079e-02	8.7006e-01
84	PAN090136	4.5587	5.0165	4.7549	1.0330e-01	8.7008e-01
85	PAN100136	1.4189	1.9530	1.7039	1.1206e-01	8.7001e-01
86	PAN105136	1.7306	2.1121	1.9221	7.3249e-02	8.7001e-01
87	PAN110136	2.1679	2.7020	2.3610	1.1973e-01	8.7002e-01
88	PAN115136	2.3116	2.7694	2.5374	9.3388e-02	8.7002e-01
89	PAN120136	2.5978	2.8267	2.7146	7.6456e-02	8.7003e-01
90	PAN125136	2.4041	2.9382	2.6891	9.5717e-02	8.7003e-01
91	PAN130136	1.7159	2.0974	1.9448	8.0922e-02	8.7001e-01
92	PAN120048	2.6235	3.1575	2.8819	1.1842e-01	8.7003e-01
93	PAN130048	4.8096	5.4200	5.1101	1.2401e-01	8.7009e-01
94	PAN120224	2.1805	2.5619	2.3502	1.0125e-01	8.7002e-01
95	PAN130224	4.4238	4.8815	4.5842	1.0475e-01	8.7008e-01
96	PAN120312	4.0423	4.5001	4.2759	1.2786e-01	8.7007e-01
97	PAN130312	4.5735	5.1075	4.8397	1.0227e-01	8.7008e-01
98	PAB000136	27.6961	28.1080	27.8735	9.0898e-02	5.8417e-01
99	PAB100136	26.4152	26.5983	26.4927	4.2001e-02	5.8377e-01
100	PAB125136	25.8932	26.0305	25.9670	4.3644e-02	5.8362e-01

Test: Jul31_21

sum2

Date: Tue Jul 31 12:02:09 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.3622	27.8504	27.5839	1.2625e-01	7.5316e-01
102	PRV000001	24.3456	24.4677	24.4153	6.1035e-02	7.5248e-01
103	PSR000001	25.2542	25.4983	25.4834	4.7492e-02	7.5270e-01
104	PFM000001	25.4217	26.2457	25.7935	1.7067e-01	5.0414e-01
105	PAN000136	49.7381	57.9778	53.3441	1.8633e+00	4.9218e+00
106	PFM000002	22.7140	24.4927	23.7835	4.8707e-01	2.0865e-01
107	EMPTY	0.0049	0.0098	0.0051	9.7615e-04	0.0000e+00
108	EMPTY	-10.0000	-1.1475	-7.8413	2.6554e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9754e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.7615e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0595	1.0409e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0182	9.7656e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0212	1.0594e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0207	1.0044e-01	8.1000e-01
116	VPW000005	-0.1577	0.4282	0.0894	1.3681e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0504	1.1348e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.3517	1.2995e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.2428	1.3283e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6933	1.1500e+00	8.1000e+00
121	IPW000004	-0.2441	1.2207	0.2541	2.9041e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0481	2.9830e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0140	3.7752e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.9817e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6061e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0155	2.7610e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.1228e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0107	1.0548e-01	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0126	9.4620e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0038	8.9148e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0175	1.1319e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0487	1.1658e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0196	1.0378e-01	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0208	7.6412e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0225	1.0076e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0038	9.7656e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0010	8.4860e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0180	8.7123e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0133	1.0640e-01	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0182	8.9148e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0876	9.9792e-02	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0044	8.3705e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0278	9.8483e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0639	3.1237e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	0.0031	1.1146e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2164	9.7490e-02	4.1000e+00
147	IHT000020	-0.1052	0.0902	0.0064	9.7656e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0239	9.8153e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0421	8.7123e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0007	6.1868e-02	4.1000e+00
151	IHT000024	0.0376	0.2329	0.1013	9.2540e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0488	6.9053e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0190	7.4477e-02	4.1000e+00
154	IHT000027	-0.2066	0.3793	0.0286	9.7490e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0031	8.3705e-02	4.1000e+00

Test: Jul31_21 sum2 Date: Tue Jul 31 12:02:09 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0105	8.7123e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0314	8.5810e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0667	1.1219e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0227	1.0204e-01	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0143	9.5812e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0268	9.7324e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0654	1.1348e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0416	9.9303e-02	4.1000e+00

Test: Jul31_21 dif Date: Tue Jul 31 12:02:09 1990 Page: 1

Velocity 1 = 0.019600 (ft/sec)

Velocity 2 = 0.015699 (ft/sec)

Pressure Drop = 0.002700 (psi)

Tsat in = 0.135910 (deg F) Tsat out = 0.133698 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0253	0.0340
1	TRF000002	0.0022	0.0030
2	TFM000001	0.0189	0.0212
3	TIN000001	0.0171	0.0194
4	TRV000001	0.0316	0.0356
5	TSR000001	0.0242	0.0273
6	TAO020136	0.0088	0.0108
7	TAO050136	0.0204	0.0230
8	TAO070136	0.0381	0.0429
9	TAO080136	0.0089	0.0100
10	TAO090136	0.0234	0.0262
11	TAO100136	0.0456	0.0515
12	TAO105136	0.0004	0.0004
13	TAO110136	0.0122	0.0137
14	TAO115136	0.0173	0.0194
15	TAO120136	0.0033	0.0037
16	TAO125136	0.0493	0.0551
17	TAO130136	0.0453	0.0511
18	TAO120048	0.0509	0.0674
19	TAO130048	0.0454	0.0513
20	TAO120224	0.0113	0.0127
21	TAO130224	0.0324	0.0365
22	TAO120312	0.0028	0.0032
23	TAO130312	0.0014	0.0016
24	TRT020000	0.0394	0.0441
25	TRT070000	0.0267	0.0300
26	TRT100000	0.0325	0.0364
27	TRT120000	0.0215	0.0241
28	TRT125000	0.0081	0.0091
29	TRT130000	0.0014	0.0016
30	EMPTY	0.0551	0.1389
31	TAF050136	0.0102	0.0114
32	TAF070136	0.0600	0.0670
33	TAF080136	0.0465	0.0521
34	TAF090136	0.0815	0.1078
35	TAF100136	0.0509	0.0572
36	TAF105136	0.0423	0.0476
37	TAF110136	0.0117	0.0132
38	TAF115136	0.0364	0.0407
39	TAF120136	0.0258	0.0289
40	TAF125136	0.0016	0.0018
41	TAF130136	0.0316	0.0355
42	TAF120048	0.0587	0.0656
43	TAF130048	0.0142	0.0159
44	TAF120224	0.0269	0.0302
45	TAF130224	0.0313	0.0353

#	Name	Abs Diff	%Diff
46	EMPTY	0.0112	0.0294
47	EMPTY	0.0199	0.0508
48	TAI130048	0.0869	0.0973
49	TAI130136	0.0211	0.0238
50	TAI130224	0.0239	0.0267
51	TAI130312	0.0179	0.0201
52	TRR130000	0.0323	0.0369
53	TSI000001	0.0358	0.0440
54	TSI000002	0.0038	0.0049
55	TSO000001	0.0061	0.0079
56	TSO000002	0.1023	0.1322
57	TAF020136	0.0400	0.0452
58	TAF120312	0.0252	0.0284
59	TAF130312	0.0508	0.0575
60	EMPTY	0.0001	0.0189
61	EMPTY	0.0002	0.0369
62	EMPTY	0.0002	0.0360
63	EMPTY	0.0002	0.0350
64	EMPTY	0.0003	0.0820
65	EMPTY	0.0004	0.1036
66	EMPTY	0.0000	0.0000
67	EMPTY	0.0002	0.0471
68	EMPTY	0.0005	0.1139
69	EMPTY	0.0008	0.1750
70	EMPTY	0.0001	0.0211
71	EMPTY	0.0006	0.1207
72	EMPTY	0.0002	0.0390
73	EMPTY	0.0001	0.0188
74	EMPTY	0.0001	0.0183
75	EMPTY	0.0001	0.0177
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0004	0.0666
78	EMPTY	0.0003	0.0480
79	EMPTY	0.0003	0.0462
80	PAN020136	0.0555	0.7503
81	PAN050136	0.0178	0.1413
82	PAN070136	0.0179	0.2141
83	PAN080136	0.0179	0.4433
84	PAN090136	0.0266	0.5563
85	PAN100136	0.0019	0.1114
86	PAN105136	0.0114	0.5966
87	PAN110136	0.0053	0.2240
88	PAN115136	0.0107	0.4199
89	PAN120136	0.0038	0.1398
90	PAN125136	0.0294	1.0815
91	PAN130136	0.0244	1.2706
92	PAN120048	0.0040	0.1386
93	PAN130048	0.0016	0.0313
94	PAN120224	0.0134	0.5669
95	PAN130224	0.0181	0.3933
96	PAN120312	0.0395	0.9153
97	PAN130312	0.0007	0.0145
98	PAB000136	0.0658	0.2366
99	PAB100136	0.0537	0.2031
100	PAB125136	0.0610	0.2355

Test: Jul31_21

dif

Date: Tue Jul 31 12:02:09 1990

Page: 3

#	Name	Abs Diff	%Diff
101	PIN000001	0.0395	0.1430
102	PRV000001	0.0499	0.2040
103	PSR000001	0.0681	0.2679
104	PFM000001	0.0787	0.3042
105	PAN000136	0.0744	0.1393
106	PFM000002	0.0601	0.2521
107	EMPTY	0.0004	7.2727
108	EMPTY	0.5300	7.2491
109	EMPTY	0.0003	6.6667
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0000	0.0000
112	VPW000001	0.0258	76.5579
113	VPW000002	0.0341	65.2008
114	VPW000003	0.0096	31.1688
115	VPW000004	0.0228	1085.7144
116	VPW000005	0.0557	165.2819
117	VPW000006	0.0059	10.4796
118	IPW000001	0.4248	54.7070
119	IPW000002	0.1752	259.1716
120	IPW000003	0.4743	216.5754
121	IPW000004	0.0588	30.1075
122	IPW000005	0.0679	58.5345
123	IPW000006	0.0863	86.0419
124	EMPTY	0.0005	2.6596
125	EMPTY	0.0005	3.6496
126	EMPTY	0.0000	0.0000
127	EMPTY	0.0006	3.7736
128	IHT000001	0.0245	177.5362
129	IHT000002	0.0122	3050.0000
130	IHT000003	0.0118	147.5000
131	IHT000004	0.0100	133.3333
132	IHT000005	0.0182	59.6721
133	IHT000006	0.0224	800.0000
134	IHT000007	0.0071	25.4480
135	IHT000008	0.0052	30.0578
136	IHT000009	0.0196	124.0506
137	IHT000010	0.0107	110.3093
138	IHT000011	0.0088	95.6522
139	IHT000012	0.0216	260.2410
140	IHT000013	0.0067	26.9076
141	IHT000014	0.0343	64.3527
142	IHT000015	0.0080	222.2222
143	IHT000016	0.0018	6.9231
144	IHT000017	0.0221	52.8708
145	IHT000018	0.0258	113.6564
146	IHT000019	0.0070	3.1334
147	IHT000020	0.0095	59.7484
148	IHT000021	0.0096	67.1329
149	IHT000022	0.0185	78.3898
150	IHT000023	0.0114	94.2149
151	IHT000024	0.0027	2.5962
152	IHT000025	0.0039	8.6860
153	IHT000026	0.0079	71.1712
154	IHT000027	0.0070	19.6629
155	IHT000028	0.0076	168.8889

Test: Jul31_21 dif Date: Tue Jul 31 12:02:09 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0128	556.5217
157	IHT000030	0.0434	361.6666
158	IHT000031	0.0413	162.5984
159	IHT000032	0.0326	329.2929
160	IHT000033	0.0167	695.8333
161	IHT000034	0.0471	232.0197
162	IHT000035	0.0565	634.8314
163	IHT000036	0.0379	1024.3243

Test: Jul31_22

sum1

Date: Tue Jul 31 12:11:45 1990

Page: 1

Velocity 1 = 6.9858 (ft/sec) (+/- 3.7782 %)
Velocity 2 = 6.9249 (ft/sec) (+/- 2.0823 %)
Pressure drop = -2.9680 (psi)
Tsats in = 233.5649 (deg F) Tsats out = 240.1592 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2445.2502 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2824.5610 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0527	74.6929	74.3472	1.6636e-01	1.9000e+00
1	TRF000002	73.9855	74.4101	74.1468	1.1795e-01	1.9000e+00
2	TFM000001	88.5224	89.1526	88.8357	1.8784e-01	1.9002e+00
3	TIN000001	87.6304	88.1568	87.8559	1.2034e-01	1.9002e+00
4	TRV000001	87.7842	88.7265	88.2353	2.1792e-01	1.9002e+00
5	TSR000001	88.2054	88.8338	88.5426	1.3622e-01	1.9002e+00
6	TAO020136	81.2176	82.2757	81.7319	2.1791e-01	1.9001e+00
7	TAO050136	88.0656	88.6952	88.3619	1.5813e-01	1.9002e+00
8	TAO070136	88.0895	88.7220	88.3742	1.8587e-01	1.9002e+00
9	TAO080136	87.9658	88.5959	88.2621	1.4937e-01	1.9002e+00
10	TAO090136	88.5407	89.2743	88.9200	1.8574e-01	1.9002e+00
11	TAO100136	87.8943	88.5254	88.1700	1.5730e-01	1.9002e+00
12	TAO105136	88.7171	89.6633	89.1693	2.0176e-01	1.9002e+00
13	TAO110136	88.2636	88.8904	88.6336	1.6532e-01	1.9002e+00
14	TAO115136	88.3288	89.1704	88.7559	1.9967e-01	1.9002e+00
15	TAO120136	88.0506	88.4720	88.2675	1.0930e-01	1.9002e+00
16	TAO125136	88.6862	89.2113	89.0370	1.5527e-01	1.9002e+00
17	TAO130136	87.8990	88.4218	88.1988	1.4909e-01	1.9002e+00
18	TAO120048	75.5123	76.1499	75.7951	1.5414e-01	1.9000e+00
19	TAO130048	87.7738	88.2990	88.0912	1.5365e-01	1.9002e+00
20	TAO120224	88.0944	88.6200	88.3826	1.5139e-01	1.9002e+00
21	TAO130224	88.0459	88.7770	88.4276	1.6051e-01	1.9002e+00
22	TAO120312	87.9734	88.8145	88.4717	1.7368e-01	1.9002e+00
23	TAO130312	87.9478	88.6823	88.2778	1.5292e-01	1.9002e+00
24	TRT020000	88.4580	89.1949	88.8476	1.8809e-01	1.9002e+00
25	TRT070000	88.3414	88.9747	88.6603	1.4519e-01	1.9002e+00
26	TRT100000	88.4991	89.2332	88.9285	1.8734e-01	1.9002e+00
27	TRT120000	88.4101	88.8314	88.6145	1.0502e-01	1.9002e+00
28	TRT125000	88.2889	89.0222	88.6386	1.9779e-01	1.9002e+00
29	TRT130000	88.1077	88.8424	88.4796	1.4877e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.2477e-01	1.9011e+00
31	TAF050136	88.4474	89.2845	88.8973	1.8486e-01	1.9002e+00
32	TAF070136	88.7502	89.4829	89.1339	1.7367e-01	1.9002e+00
33	TAF080136	88.4073	89.0340	88.7436	1.3593e-01	1.9002e+00
34	TAF090136	75.6366	76.5906	76.1690	2.2083e-01	1.9000e+00
35	TAF100136	88.2662	89.0027	88.6175	1.5852e-01	1.9002e+00
36	TAF105136	87.9521	89.1010	88.5555	2.7275e-01	1.9002e+00
37	TAF110136	88.0901	88.7204	88.3697	1.6365e-01	1.9002e+00
38	TAF115136	88.3753	89.3186	88.9186	1.9832e-01	1.9002e+00
39	TAF120136	88.4161	89.1495	88.7490	1.3033e-01	1.9002e+00
40	TAF125136	88.1827	89.3313	88.8191	2.5816e-01	1.9002e+00
41	TAF130136	88.2826	88.9132	88.6502	1.5901e-01	1.9002e+00
42	TAF120048	88.6631	89.2962	89.0072	1.8916e-01	1.9002e+00
43	TAF130048	88.2534	88.9881	88.6379	1.7435e-01	1.9002e+00
44	TAF120224	88.2442	89.1886	88.6786	2.0107e-01	1.9002e+00
45	TAF130224	87.8796	88.5121	88.1265	1.7757e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	1.9016e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2429	1.1449e-01	1.9010e+00
48	TAI130048	88.2480	89.6129	88.9557	3.2063e-01	1.9002e+00
49	TAI130136	87.7556	88.6989	88.1693	1.7507e-01	1.9002e+00
50	TAI130224	88.7040	89.7552	89.3158	3.0613e-01	1.9003e+00
51	TAI130312	88.1749	88.9115	88.5348	1.7526e-01	1.9002e+00
52	TRR130000	86.8206	87.8691	87.3599	2.0754e-01	1.9002e+00
53	TSI000001	81.2361	81.8697	81.5216	1.4811e-01	1.9001e+00
54	TSI000002	77.1661	78.5379	77.6754	2.7466e-01	1.9000e+00
55	TSO000001	76.9967	77.9533	77.3983	1.9600e-01	1.9000e+00
56	TSO000002	77.4292	78.2765	77.8126	1.9254e-01	1.9000e+00
57	TAF020136	87.6363	88.2695	87.9973	1.6523e-01	1.9002e+00
58	TAF120312	87.6954	88.7449	88.2223	2.8649e-01	1.9002e+00
59	TAF130312	87.7129	88.2384	87.9593	1.4643e-01	1.9002e+00
60	EMPTY	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
61	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5443	2.4642e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5612	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3799	1.9730e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
67	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
68	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4487	1.4797e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4879	1.3381e-03	0.0000e+00
72	EMPTY	0.4932	0.5029	0.5026	1.5314e-03	0.0000e+00
73	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
74	EMPTY	0.5371	0.5469	0.5374	1.5314e-03	0.0000e+00
75	EMPTY	0.5518	0.5615	0.5566	9.8648e-04	0.0000e+00
76	EMPTY	0.5664	0.5762	0.5713	9.8648e-04	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5909	6.9053e-04	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6150	9.6655e-04	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6396	6.9053e-04	0.0000e+00
80	PAN020136	-10.1998	-9.8183	-10.0060	7.7392e-02	8.7036e-01
81	PAN050136	-19.7875	-19.3297	-19.5525	1.4528e-01	1.6807e+00
82	PAN070136	-13.4216	-13.0401	-13.1988	7.6822e-02	8.7063e-01
83	PAN080136	-6.8311	-6.5259	-6.7106	8.7316e-02	8.7016e-01
84	PAN090136	-6.6565	-6.3513	-6.4520	7.7744e-02	8.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.2114	8.1036e-02	8.7019e-01
86	PAN105136	-3.3811	-3.0759	-3.2483	6.6850e-02	8.7004e-01
87	PAN110136	-3.1727	-2.9438	-3.0201	5.9697e-02	8.7003e-01
88	PAN115136	-3.1816	-2.8764	-3.0229	7.0365e-02	8.7003e-01
89	PAN120136	-3.2005	-2.8954	-3.0510	6.7116e-02	8.7003e-01
90	PAN125136	-3.2416	-3.0890	-3.1378	4.5620e-02	8.7004e-01
91	PAN130136	-3.3195	-3.0906	-3.2005	4.9131e-02	8.7004e-01
92	PAN120048	-7.4473	-7.2184	-7.3390	6.3720e-02	8.7019e-01
93	PAN130048	-6.3293	-6.1004	-6.1966	7.0314e-02	8.7014e-01
94	PAN120224	-7.1274	-6.8985	-7.0267	5.8572e-02	8.7018e-01
95	PAN130224	-6.4863	-6.1811	-6.3169	7.5966e-02	8.7014e-01
96	PAN120312	-6.5625	-6.2574	-6.4527	7.5763e-02	8.7015e-01
97	PAN130312	-6.4892	-6.2603	-6.3763	6.2116e-02	8.7015e-01
98	PAB000136	22.2029	22.3402	22.2780	4.3141e-02	5.8267e-01
99	PAB100136	24.5384	24.6757	24.6199	4.1658e-02	5.8326e-01
100	PAB125136	25.0234	25.1608	25.0720	3.8588e-02	5.8338e-01

Test: Jul31_22

sum1

Date: Tue Jul 31 12:11:45 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.9911	22.1131	22.1009	3.6993e-02	7.5203e-01
102	PRV000001	24.4677	24.5897	24.4750	2.9284e-02	7.5249e-01
103	PSR000001	25.2542	25.3763	25.3372	5.7521e-02	7.5267e-01
104	PFM000001	7.1112	7.5689	7.3785	9.2186e-02	5.0034e-01
105	PAN000136	-82.5556	-81.6401	-82.1711	3.2514e-01	4.9243e+00
106	PFM000002	7.1424	7.3773	7.2488	5.5767e-02	2.0082e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-10.0000	-0.5811	-7.4337	2.9497e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0019	2.5894e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0532	1.0507e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0366	1.0358e-01	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0386	1.2327e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0412	1.0617e-01	8.1000e-01
116	VPW000005	-0.1577	0.4282	0.0649	1.1844e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0759	1.2478e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.3469	1.1594e+00	8.1000e+00
119	IPW000002	-0.7129	3.1896	0.3017	1.0607e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6480	1.2464e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1758	2.6118e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0965	2.7916e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0905	3.3366e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.8155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.9197e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.6858e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0216	8.4997e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0035	8.7880e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	8.7880e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0271	1.1161e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0227	1.1327e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0089	1.0014e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0162	9.1354e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0173	9.8648e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0080	7.2866e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0449	1.0617e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0560	9.8332e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0347	1.1084e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0180	7.1136e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0963	9.4125e-02	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0159	7.5283e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0651	9.3461e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0535	2.4289e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	0.0242	1.1864e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2351	1.1334e-01	4.1000e+00
147	IHT000020	-0.3005	0.0902	0.0003	1.0595e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0221	9.7935e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0275	1.0885e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0121	1.0168e-01	4.1000e+00
151	IHT000024	0.0376	0.2329	0.1313	9.8569e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0606	8.2864e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0111	8.3612e-02	4.1000e+00
154	IHT000027	-0.2066	0.7700	0.0317	1.3258e-01	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0006	1.1049e-01	4.1000e+00

Test: Jul31_22

sum1

Date: Tue Jul 31 12:11:45 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	-0.0023	7.8918e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0036	1.0052e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0371	1.0559e-01	4.1000e+00
159	IHT000032	-0.2404	0.3455	0.0174	1.1464e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0367	1.0358e-01	4.1000e+00
161	IHT000034	-0.3718	0.2141	0.0032	9.5357e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0401	1.0145e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0194	9.7377e-02	4.1000e+00

Test: Jul31_22

sum2

Date: Tue Jul 31 12:11:45 1990

Page: 1

Velocity 1 = 6.9997 (ft/sec) (+/- 3.7660 %)
Velocity 2 = 6.9354 (ft/sec) (+/- 2.0800 %)
Pressure drop = -2.9704 (psi)
Tsat in = 233.6240 (deg F) Tsat out = 240.2498 (deg F)
Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 2434.9600 %)
Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 1956.2844 %)
D inner = 0.1961 (ft) D outer = 0.2413 (ft) D hyd = 0.0390 (ft)
L inner = 12.8610 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.0527	74.6929	74.3445	1.7256e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.1414	1.4874e-01	1.9000e+00
2	TFM000001	88.3132	89.1526	88.7885	2.0779e-01	1.9002e+00
3	TIN000001	87.5251	88.1570	87.8648	1.8006e-01	1.9002e+00
4	TRV000001	87.8883	88.7286	88.2061	1.9070e-01	1.9002e+00
5	TSR000001	88.0999	88.8352	88.5388	1.6681e-01	1.9002e+00
6	TAO020136	81.3232	82.1698	81.7640	2.1630e-01	1.9001e+00
7	TAO050136	87.9606	88.5919	88.2997	1.5781e-01	1.9002e+00
8	TAO070136	87.9839	88.8269	88.3585	1.9474e-01	1.9002e+00
9	TAO080136	87.8626	88.4922	88.2255	1.5454e-01	1.9002e+00
10	TAO090136	88.3303	89.2753	88.8550	2.2145e-01	1.9002e+00
11	TAO100136	87.7902	88.6303	88.1713	1.6576e-01	1.9002e+00
12	TAO105136	88.7171	89.6634	89.1785	2.3290e-01	1.9002e+00
13	TAO110136	88.1586	89.3087	88.6007	2.0938e-01	1.9002e+00
14	TAO115136	88.2239	89.2753	88.7775	2.4633e-01	1.9002e+00
15	TAO120136	87.9456	88.5770	88.2591	1.4163e-01	1.9002e+00
16	TAO125136	88.5812	89.2123	88.9929	1.5873e-01	1.9002e+00
17	TAO130136	87.7940	88.4254	88.1879	1.5032e-01	1.9002e+00
18	TAO120048	75.4062	76.2559	75.7965	1.8188e-01	1.9000e+00
19	TAO130048	87.6688	88.3003	88.0464	1.3720e-01	1.9002e+00
20	TAO120224	87.9901	88.8304	88.3928	1.7732e-01	1.9002e+00
21	TAO130224	88.0459	88.8824	88.4163	1.6837e-01	1.9002e+00
22	TAO120312	88.0782	88.8147	88.4368	1.8079e-01	1.9002e+00
23	TAO130312	87.8428	88.6835	88.2247	1.7380e-01	1.9002e+00
24	TRT020000	88.3530	89.4052	88.8255	2.4217e-01	1.9002e+00
25	TRT070000	88.2364	88.9739	88.6345	1.6129e-01	1.9002e+00
26	TRT100000	88.4979	89.3381	88.9692	1.9286e-01	1.9002e+00
27	TRT120000	88.2005	88.9363	88.6100	1.5948e-01	1.9002e+00
28	TRT125000	88.2875	89.3354	88.5967	1.9743e-01	1.9002e+00
29	TRT130000	88.1077	88.8434	88.4316	1.6719e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6384	2.0955e-01	1.9011e+00
31	TAF050136	88.4459	89.2859	88.8617	1.8034e-01	1.9002e+00
32	TAF070136	88.7520	89.4848	89.1289	2.0218e-01	1.9002e+00
33	TAF080136	88.4051	89.0362	88.7313	1.5615e-01	1.9002e+00
34	TAF090136	75.6366	76.8030	76.1237	2.7422e-01	1.9000e+00
35	TAF100136	88.2657	89.1076	88.5967	1.7580e-01	1.9002e+00
36	TAF105136	87.9527	88.8907	88.5061	2.2459e-01	1.9002e+00
37	TAF110136	87.9851	88.8253	88.3754	1.6994e-01	1.9002e+00
38	TAF115136	88.3753	89.3198	88.9339	1.8705e-01	1.9002e+00
39	TAF120136	88.4145	89.0457	88.7408	1.3107e-01	1.9002e+00
40	TAF125136	88.1809	89.2282	88.7875	2.6922e-01	1.9002e+00
41	TAF130136	88.1777	89.0181	88.6192	1.7401e-01	1.9002e+00
42	TAF120048	88.5574	89.5072	89.0035	2.2806e-01	1.9002e+00
43	TAF130048	88.2534	88.9891	88.6158	1.8438e-01	1.9002e+00
44	TAF120224	88.2448	89.0842	88.6853	1.9146e-01	1.9002e+00
45	TAF130224	87.7746	88.5121	88.1251	1.8041e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1429	2.0291e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2308	1.2127e-01	1.9010e+00
48	TAI130048	88.4584	89.5082	88.8995	2.9369e-01	1.9002e+00
49	TAI130136	87.7556	88.5934	88.1307	2.1072e-01	1.9002e+00
50	TAI130224	88.5985	89.7553	89.2274	3.2084e-01	1.9002e+00
51	TAI130312	87.9649	89.0164	88.4799	2.0042e-01	1.9002e+00
52	TRR130000	86.8199	87.6611	87.3046	2.4183e-01	1.9002e+00
53	TSI000001	81.1305	81.9757	81.5274	1.7965e-01	1.9001e+00
54	TSI000002	77.1649	78.4346	77.6233	3.0219e-01	1.9000e+00
55	TSO000001	76.9967	77.8469	77.4000	1.8908e-01	1.9000e+00
56	TSO000002	77.4292	78.2771	77.8140	1.8821e-01	1.9000e+00
57	TAF020136	87.5302	88.2704	87.9745	1.6676e-01	1.9002e+00
58	TAF120312	87.4848	88.7456	88.2951	2.9292e-01	1.9002e+00
59	TAF130312	87.3983	88.4489	87.9258	2.0053e-01	1.9002e+00
60	EMPTY	0.5176	0.5225	0.5180	1.3508e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5322	1.4095e-03	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5467	9.7615e-04	0.0000e+00
63	EMPTY	0.5566	0.5664	0.5615	9.9670e-04	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3564	9.9670e-04	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3802	1.7263e-03	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3953	9.7615e-04	0.0000e+00
67	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4295	9.7615e-04	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4488	1.3508e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4636	1.1827e-03	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4880	1.1827e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.5027	9.7615e-04	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5224	6.9754e-04	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5373	9.7615e-04	0.0000e+00
75	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
76	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
77	EMPTY	0.5859	0.5957	0.5908	9.9670e-04	0.0000e+00
78	EMPTY	0.6104	0.6201	0.6154	1.3951e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6392	1.4934e-03	0.0000e+00
80	PAN020136	-10.1235	-9.8183	-10.0067	6.9824e-02	8.7036e-01
81	PAN050136	-19.7875	-19.3297	-19.5446	1.4246e-01	1.6807e+00
82	PAN070136	-13.3453	-13.1164	-13.2098	6.4710e-02	8.7063e-01
83	PAN080136	-6.8311	-6.5259	-6.7081	8.6452e-02	8.7016e-01
84	PAN090136	-6.6565	-6.3513	-6.4509	7.3384e-02	8.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.2350	7.3046e-02	8.7019e-01
86	PAN105136	-3.3811	-3.0759	-3.2581	6.7554e-02	8.7004e-01
87	PAN110136	-3.1727	-2.9438	-3.0559	6.2492e-02	8.7003e-01
88	PAN115136	-3.1816	-2.6475	-3.0165	8.5791e-02	8.7003e-01
89	PAN120136	-3.2005	-2.8954	-3.0620	7.4156e-02	8.7003e-01
90	PAN125136	-3.3179	-3.0890	-3.1482	6.2808e-02	8.7004e-01
91	PAN130136	-3.3195	-3.0143	-3.1840	6.4710e-02	8.7004e-01
92	PAN120048	-7.4473	-7.2184	-7.3306	5.8482e-02	8.7019e-01
93	PAN130048	-6.3293	-6.0241	-6.1923	6.7847e-02	8.7014e-01
94	PAN120224	-7.1274	-6.8985	-7.0387	7.0248e-02	8.7018e-01
95	PAN130224	-6.4100	-6.2574	-6.3243	6.3513e-02	8.7014e-01
96	PAN120312	-6.6388	-6.2574	-6.4567	8.2136e-02	8.7015e-01
97	PAN130312	-6.4892	-6.1077	-6.3755	7.3249e-02	8.7015e-01
98	PAB000136	22.2487	22.3860	22.3019	3.7779e-02	5.8267e-01
99	PAB100136	24.5841	24.7673	24.6411	4.3357e-02	5.8326e-01
100	PAB125136	25.0692	25.1608	25.1122	3.7850e-02	5.8339e-01

Test: Jul31_22

sum2

Date: Tue Jul 31 12:11:45 1990

Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.9911	22.3573	22.0284	7.1371e-02	7.5202e-01
102	PRV000001	24.4677	24.5897	24.4726	2.4404e-02	7.5249e-01
103	PSR000001	25.2542	25.3763	25.3538	4.7758e-02	7.5267e-01
104	PFM000001	7.2027	7.5689	7.4083	8.6715e-02	5.0034e-01
105	PAN000136	-82.5556	-81.6401	-82.2380	2.5080e-01	4.9243e+00
106	PFM000002	7.1759	7.3605	7.2711	4.7877e-02	2.0082e-01
107	EMPTY	-0.0049	0.0049	0.0043	2.1453e-03	0.0000e+00
108	EMPTY	-10.0000	-2.5781	-7.6383	2.6009e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9754e-04	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0675	9.3931e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0820	9.6150e-02	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0372	9.5132e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0287	8.5810e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0535	1.0424e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0783	1.0409e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.5111	9.7451e-01	8.1000e+00
119	IPW000002	-0.7129	3.1896	0.4817	1.2479e+00	8.1000e+00
120	IPW000003	-3.5250	2.3250	0.4546	1.2561e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2242	2.8119e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0580	3.2152e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1336	3.2934e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0192	3.2155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.7016e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.2124e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0150	3.7075e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0172	8.9148e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0047	7.8092e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0002	7.4477e-02	4.1000e+00
131	IHT000004	-0.2854	0.3005	0.0215	1.1276e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0367	1.1219e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0156	8.9148e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0009	7.8092e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0424	1.0548e-01	4.1000e+00
136	IHT000009	-0.1916	0.0038	-0.0082	4.7310e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0229	9.5132e-02	4.1000e+00
138	IHT000011	-0.2291	0.1615	0.0140	9.3759e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0053	9.8483e-02	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0461	9.7656e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0677	1.0836e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0084	5.4032e-02	4.1000e+00
143	IHT000016	-0.2592	0.1315	0.0159	1.0486e-01	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0599	3.3723e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0008	1.1219e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2642	1.0594e-01	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0224	1.0955e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0239	1.0594e-01	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0461	9.3759e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0166	8.9148e-02	4.1000e+00
151	IHT000024	0.0376	0.4282	0.1133	1.1146e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0528	7.4477e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0071	5.5804e-02	4.1000e+00
154	IHT000027	-0.2066	0.3793	0.0286	9.7490e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0009	1.0424e-01	4.1000e+00

Test: Jul31_22

sum2

Date: Tue Jul 31 12:11:45 1990

Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	0.0025	8.2338e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0115	7.4477e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0349	1.1960e-01	4.1000e+00
159	IHT000032	-0.0451	0.1502	0.0067	8.7123e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0063	8.2338e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0108	7.9328e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	-0.0143	7.3601e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0057	1.1362e-01	4.1000e+00

Test: Jul31_22 dif Date: Tue Jul 31 12:11:45 1990 Page: 1

Velocity 1 = 0.013900 (ft/sec)

Velocity 2 = 0.010500 (ft/sec)

Pressure Drop = 0.002400 (psi)

Tsat in = 0.059097 (deg F) Tsat out = 0.090607 (deg F)

Phi inner = 0.000000 (kBtu/hr-ft2) Phi outer = 0.000000 (kBtu/hr-ft2)

#	Name	Abs Diff	%Diff
0	TRF000001	0.0027	0.0036
1	TRF000002	0.0054	0.0073
2	TFM000001	0.0472	0.0531
3	TIN000001	0.0089	0.0101
4	TRV000001	0.0292	0.0331
5	TSR000001	0.0038	0.0043
6	TAO020136	0.0321	0.0393
7	TAO050136	0.0622	0.0704
8	TAO070136	0.0157	0.0178
9	TAO080136	0.0366	0.0415
10	TAO090136	0.0650	0.0731
11	TAO100136	0.0013	0.0015
12	TAO105136	0.0092	0.0103
13	TAO110136	0.0329	0.0371
14	TAO115136	0.0216	0.0243
15	TAO120136	0.0084	0.0095
16	TAO125136	0.0441	0.0495
17	TAO130136	0.0109	0.0124
18	TAO120048	0.0014	0.0019
19	TAO130048	0.0448	0.0509
20	TAO120224	0.0102	0.0115
21	TAO130224	0.0113	0.0128
22	TAO120312	0.0349	0.0395
23	TAO130312	0.0531	0.0602
24	TRT020000	0.0221	0.0249
25	TRT070000	0.0258	0.0291
26	TRT100000	0.0407	0.0458
27	TRT120000	0.0045	0.0051
28	TRT125000	0.0419	0.0473
29	TRT130000	0.0480	0.0542
30	EMPTY	0.0282	0.0712
31	TAF050136	0.0356	0.0400
32	TAF070136	0.0050	0.0056
33	TAF080136	0.0123	0.0139
34	TAF090136	0.0453	0.0595
35	TAF100136	0.0208	0.0235
36	TAF105136	0.0494	0.0558
37	TAF110136	0.0057	0.0064
38	TAF115136	0.0153	0.0172
39	TAF120136	0.0082	0.0092
40	TAF125136	0.0316	0.0356
41	TAF130136	0.0310	0.0350
42	TAF120048	0.0037	0.0042
43	TAF130048	0.0221	0.0249
44	TAF120224	0.0067	0.0076
45	TAF130224	0.0014	0.0016

#	Name	Abs Diff	%Diff
46	EMPTY	0.0017	0.0045
47	EMPTY	0.0121	0.0308
48	TAI130048	0.0562	0.0632
49	TAI130136	0.0386	0.0438
50	TAI130224	0.0884	0.0990
51	TAI130312	0.0549	0.0620
52	TRR130000	0.0553	0.0633
53	TSI000001	0.0058	0.0071
54	TSI000002	0.0521	0.0671
55	TSO000001	0.0017	0.0022
56	TSO000002	0.0014	0.0018
57	TAF020136	0.0228	0.0259
58	TAF120312	0.0728	0.0825
59	TAF130312	0.0335	0.0381
60	EMPTY	0.0003	0.0579
61	EMPTY	0.0002	0.0376
62	EMPTY	0.0024	0.4409
63	EMPTY	0.0003	0.0535
64	EMPTY	0.0000	0.0000
65	EMPTY	0.0003	0.0790
66	EMPTY	0.0003	0.0758
67	EMPTY	0.0000	0.0000
68	EMPTY	0.0002	0.0465
69	EMPTY	0.0001	0.0223
70	EMPTY	0.0001	0.0216
71	EMPTY	0.0001	0.0205
72	EMPTY	0.0001	0.0199
73	EMPTY	0.0001	0.0191
74	EMPTY	0.0001	0.0186
75	EMPTY	0.0000	0.0000
76	EMPTY	0.0000	0.0000
77	EMPTY	0.0001	0.0169
78	EMPTY	0.0004	0.0650
79	EMPTY	0.0004	0.0625
80	PAN020136	0.0007	0.0070
81	PAN050136	0.0079	0.0404
82	PAN070136	0.0110	0.0833
83	PAN080136	0.0025	0.0373
84	PAN090136	0.0011	0.0170
85	PAN100136	0.0236	0.3273
86	PAN105136	0.0098	0.3017
87	PAN110136	0.0358	1.1854
88	PAN115136	0.0064	0.2117
89	PAN120136	0.0110	0.3605
90	PAN125136	0.0104	0.3314
91	PAN130136	0.0165	0.5155
92	PAN120048	0.0084	0.1145
93	PAN130048	0.0043	0.0694
94	PAN120224	0.0120	0.1708
95	PAN130224	0.0074	0.1171
96	PAN120312	0.0040	0.0620
97	PAN130312	0.0008	0.0125
98	PAB000136	0.0239	0.1073
99	PAB100136	0.0212	0.0861
100	PAB125136	0.0402	0.1603

#	Name	Abs Diff	%Diff
101	PIN000001	0.0725	0.3280
102	PRV000001	0.0024	0.0098
103	PSR000001	0.0166	0.0655
104	PFM000001	0.0298	0.4039
105	PAN000136	0.0669	0.0814
106	PFM000002	0.0223	0.3076
107	EMPTY	0.0001	2.2727
108	EMPTY	0.2046	2.7523
109	EMPTY	0.0005	26.3158
110	EMPTY	0.0000	0.0000
111	EMPTY	0.0003	150.0000
112	VPW000001	0.0143	26.8797
113	VPW000002	0.0454	124.0437
114	VPW000003	0.0014	3.6269
115	VPW000004	0.0699	169.6602
116	VPW000005	0.0114	17.5655
117	VPW000006	0.0024	3.1620
118	IPW000001	0.1642	47.3335
119	IPW000002	0.1800	59.6619
120	IPW000003	0.1934	29.8457
121	IPW000004	0.0484	27.5313
122	IPW000005	0.0385	39.8964
123	IPW000006	0.0431	47.6243
124	EMPTY	0.0001	0.5181
125	EMPTY	0.0003	2.2059
126	EMPTY	0.0002	1.2195
127	EMPTY	0.0002	1.3513
128	IHT000001	0.0044	20.3704
129	IHT000002	0.0082	234.2857
130	IHT000003	0.0039	95.1220
131	IHT000004	0.0056	20.6642
132	IHT000005	0.0140	61.6740
133	IHT000006	0.0067	75.2809
134	IHT000007	0.0153	94.4444
135	IHT000008	0.0251	145.0867
136	IHT000009	0.0002	2.5000
137	IHT000010	0.0220	48.9978
138	IHT000011	0.0420	75.0000
139	IHT000012	0.0294	84.7262
140	IHT000013	0.0641	356.1111
141	IHT000014	0.0286	29.6989
142	IHT000015	0.0075	47.1698
143	IHT000016	0.0492	75.5760
144	IHT000017	0.0064	11.9626
145	IHT000018	0.0250	103.3058
146	IHT000019	0.0291	12.3777
147	IHT000020	0.0221	7366.6665
148	IHT000021	0.0018	8.1448
149	IHT000022	0.0186	67.6364
150	IHT000023	0.0045	37.1901
151	IHT000024	0.0180	13.7091
152	IHT000025	0.0078	12.8713
153	IHT000026	0.0040	36.0360
154	IHT000027	0.0031	9.7792
155	IHT000028	0.0003	50.0000

Test: Jul31_22 dif Date: Tue Jul 31 12:11:45 1990 Page: 4

#	Name	Abs Diff	%Diff
156	IHT000029	0.0048	208.6956
157	IHT000030	0.0079	219.4444
158	IHT000031	0.0022	5.9299
159	IHT000032	0.0107	61.4943
160	IHT000033	0.0304	82.8338
161	IHT000034	0.0076	237.5000
162	IHT000035	0.0544	135.6609
163	IHT000036	0.0137	70.6186

DATE

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END